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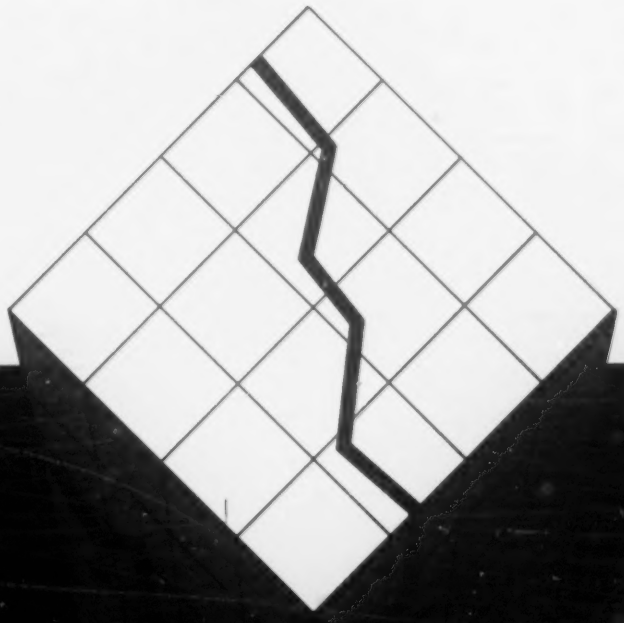

Sales of Natural Gas Liquids and Liquefied Refinery Gases

American Petroleum Institute

NPGA
PROPANE GAS

GPA Gas Processors Association

1990 Sales of Natural Gas Liquids and Liquefied Refinery Gases

Finance, Accounting and
Statistics Department
November 1991

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Clarification of Revisions to Propane Data

This report contains revised sectoral data for propane sales for the years 1984 through 1989. Over these years, it became apparent that the chemical sales data in the report differed significantly from other available industry data relating to that sector. Inquiry by the API ascertained that respondent companies had over these years not included their sales of propylene which is almost exclusively used in the chemical area. As a result, the API has reallocated the data to reflect propylene sales.

This reallocation has added approximately 1.6 billion gallons to chemical sales for each year while reducing the residential and commercial sector by an average of 1.2 billion gallons. Moreover, since most of the chemical activity is located in PAD 3, this reallocation has increased PAD 3 sales by an average of 1.4 billion gallons per year while reducing PAD 2 sales by a similar amount. All of the affective tables have been republished.

The 1990 data are consistent with the reallocated numbers of the previous years.

In using this report, several things should be kept in mind. It is a sales report and not a consumption report. Moreover, companies report on a point of sale basis; consequently, volumes may be reported as sold in one state, but eventually end up in another.

Preface

The 1990 Sales of Natural Gas Liquids and Liquefied Refinery Gases marks the publication of the seventh survey jointly sponsored by the American Petroleum Institute (API), the Gas Processors Association (GPA), and the National PROPANE GAS Association (NPGA).

Sales of natural gas liquids and liquefied refinery gases totalled 33.3 billion gallons in 1990. A reduction of 5.1 percent or 1.8 billion gallons from the 1989 volumetric level. By product, ethane showed an increase of 8.7 percent, and pentanes plus increased by 5.8 percent. Propane and butane registered decreases of 8.4 and 17.9 percents respectively.

According to survey data, only chemical usage rose 3.7 percent. The other six sectors residential and commercial, internal-combustion, industrial, gas utility, farm and other uses declined 7.7, 8.5, 34.9, 7.1, 3.2, and 44.1 percents respectively.

Butanes and pentanes plus, used in motor gasoline blending showed an overall decline of 2.3 percent.

The following table illustrates the percentage distribution of total sales by sector for both 1990 and 1989.

Sector	1990 %	1989 %
Residential & Commercial	15.0	15.4
Internal-Combustion Fuel	1.6	1.7
Chemical	45.7	41.8
Industrial	4.6	6.7
Gas Utility	0.8	0.8
Farm	3.4	3.3
Other	3.0	5.1
Gasoline Blending	25.9	25.2
Total	100.0	100.0

Washington, D.C.
November 1991

The ten states which had the largest volumes of sales are ranked below. Their sales came to 27.0 billion gallons or 81.2 percent of the total national volume.

Rank	State	Volume (M/gals)	% of Total
1.	Texas	16,605,791	49.9
2.	Louisiana	3,536,074	10.6
3.	Kansas	1,775,053	5.3
4.	California	1,282,488	3.9
5.	Illinois	902,992	2.7
6.	Michigan	710,561	2.1
7.	Indiana	639,331	1.9
8.	Mississippi	627,218	1.9
9.	Ohio	528,702	1.6
10.	New Mexico	436,257	1.3
	Total	27,044,467	81.2

TABLE 1. Sales of Natural Gas Liquids and Liquefied Refinery Gases in the United States, 1990 and 1989 (Thousands of Gallons)

Category	1990	1989[r]	VOLUME CHANGE	% CHANGE
Product Type:				
Ethane 1/	7,823,550	7,198,422	625,128	8.7
Propane 2/	14,059,584	15,343,608	-1,284,024	-8.4
Butane 3/	6,456,240	7,863,534	-1,407,294	-17.9
Pentanes Plus 4/	4,955,622	4,682,286	273,336	5.8
United States Total	33,294,996	35,087,850	-1,792,854	-5.1
Principal Uses:				
Residential & Commercial	4,975,329	5,390,325[r]	-414,996	-7.7
Internal-Combustion Fuel	532,099	581,488[r]	-49,389	-8.5
Chemical/Industrial:				
Chemical 5/6/	15,206,326	14,666,595[r]	539,731	3.7
Industrial 7/	1,531,763	2,352,240[r]	-820,477	-34.9
Gas Utility	280,906	302,435[r]	-21,529	-7.1
Farm	1,135,974	1,172,942[r]	-36,968	-3.2
Other 8/	999,356	1,786,646[r]	-787,290	-44.1
Gasoline Blending	8,633,243	8,835,179	-201,936	-2.3
United States Total	33,294,996	35,087,850	-1,792,854	-5.1

TABLE 1. Sales of Natural Gas Liquids and Liquefied Refinery Gases in the United States, 1984 thru 1988 REVISED (Thousands of Gallons)

Category	1988[r]	1987[r]	1986[r]	1985[r]	1984[r]
Product Type:					
Ethane 1/	8,030,862	7,481,292	7,627,158	8,832,768	9,071,748
Propane 2/	14,315,784	14,293,860	12,791,268	13,574,064	12,866,868
Butane 3/	8,050,140	7,589,652	7,398,762	6,766,284	6,700,848
Pentanes Plus 4/	4,808,034	4,599,422	4,490,178	5,020,470	5,203,632
United States Total	35,204,820	33,964,226	32,307,366	34,193,586	33,843,096
Principal Uses:					
Residential & Commercial	4,821,615[r]	4,858,526[r]	4,389,194[r]	4,482,339[r]	3,976,154[r]
Internal-Combustion Fuel	583,510[r]	630,685[r]	655,142[r]	734,613[r]	738,593[r]
Chemical/Industrial:					
Chemical 5/6/	15,912,224[r]	14,381,788[r]	12,869,881[r]	13,621,725[r]	12,544,704[r]
Industrial 7/	2,162,245[r]	2,205,350[r]	2,175,207[r]	2,023,744[r]	2,657,175[r]
Gas Utility	325,185[r]	143,088[r]	720,672[r]	240,818[r]	383,571[r]
Farm	1,063,688[r]	1,076,101[r]	1,132,454[r]	1,156,770[r]	995,520[r]
Other 8/	1,051,853[r]	995,105[r]	765,235[r]	2,351,442[r]	3,113,723[r]
Gasoline Blending	9,284,500	9,673,583	9,599,581	9,582,135	9,433,656
United States Total	35,204,820	33,964,226	32,307,366	34,193,586	33,843,096

r Revised.
1/ Includes ethylene.
2/ Includes propylene.
3/ Includes isobutane and butylene.
4/ Includes isopentane, natural gasoline and plant condensate. Excludes field condensate.
5/ Includes use in synthetic rubber manufacture.
6/ The reported data strongly suggest that this category includes not only ethane, propane, butane and pentanes plus consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
7/ Includes refinery fuel use.
8/ Includes use as synthetic natural gas feedstock and use in secondary recovery projects.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Table 2. Sales of Natural Gas Liquids and Liquefied Refinery Gases by Product Type, PAD District and State, 1990 and 1989 (Thousands of Gallons)

District & State	Ethane		Propane		Butane	
	1990	1989	1990	1989[r]	1990	1989
PAD Dist. I						
New England						
Connecticut...	-	-	66,509	66,074	W	W
Maine.....	-	-	58,413	65,939	-	-
Massachusetts.	-	-	110,536	107,588	W	W
New Hampshire.	-	-	89,117	103,733	-	-
Rhode Island..	-	-	21,042	20,441	-	W
Vermont.....	-	-	58,854	63,167	-	-
Central Atlantic						
Delaware.....	-	-	41,966	39,892	W	W
Maryland/D.C..	-	-	82,559	89,841	W	W
New Jersey....	-	-	168,389	239,492	46,731	23,733
New York.....	-	-	235,259	233,939	W	W
Pennsylvania..	-	-	256,626	259,193	118,945	59,710
Lower Atlantic						
Florida.....	-	W	325,408	337,228	W	W
Georgia.....	-	-	252,082	309,526	W	W
North Carolina	-	-	373,344	391,251	W	W
South Carolina	-	-	122,989	154,278	-	W
Virginia.....	-	-	171,717	188,025	W	W
West Virginia.	-	W	67,802	61,569	-	-
Total.....	-	3,631	2,502,612	2,731,176	171,186	93,736
PAD Dist. II						
Illinois.....	203,996	167,739	291,955	313,336	370,818	401,398
Indiana.....	W	W	398,236	327,852	165,153	53,335
Iowa.....	W	-	265,751	301,706	W	W
Kansas.....	270,540	309,637	275,720	370,392	406,423	436,833
Kentucky.....	W	W	242,063	270,289	50,450	44,275
Michigan.....	-	W	584,958	661,358	86,043	129,328
Minnesota.....	-	W	250,357	249,004	W	W
Missouri.....	-	-	287,517	347,497	W	W
Nebraska.....	-	W	122,308	152,075	W	W
North Dakota..	W	W	59,722	73,144	15,677	13,761
Ohio.....	-	W	460,008	484,309	66,291	179,166
Oklahoma.....	328	W	144,826	160,471	68,663	119,712
South Dakota..	-	-	155,022	152,153	-	-
Tennessee.....	-	-	121,609	145,116	W	W
Wisconsin.....	-	-	279,422	290,586	W	W
Total.....	486,450	641,255	3,939,474	4,299,288	1,246,463	1,397,161
PAD Dist. III						
Alabama.....	-	W	174,938	201,596	5,687	7,730
Arkansas.....	W	W	145,666	152,852	6,709	1,049
Louisiana.....	853,545	829,041	937,169	806,226	1,156,790	1,538,007
Mississippi...	-	W	289,329	206,000	15,865	46,064
New Mexico....	131,473	W	205,150	82,635	47,583	41,127
Texas.....	6,335,500	5,494,680	4,597,056	5,479,851	2,964,248	3,784,597
Total.....	7,321,044	6,485,914	6,349,308	6,929,160	4,196,882	5,418,574
PAD Dist. IV						
Colorado.....	2,917	W	116,724	116,004	14,127	15,511
Idaho.....	-	-	25,609	35,218	-	-
Montana.....	-	-	73,090	67,073	112,024	67,648
Utah.....	-	W	38,517	49,354	67,738	80,509
Wyoming.....	W	W	49,762	63,773	32,967	34,857
Total.....	3,242	67,182	303,702	331,422	226,856	198,525
PAD Dist. V						
Alaska.....	-	-	16,113	11,665	-	-
Arizona.....	-	-	63,329	67,513	8,491	15,319
California....	W	W	668,674	725,099	457,350	522,552
Hawaii.....	-	-	W	W	-	-
Nevada.....	-	-	60,092	74,012	-	W
Oregon.....	-	-	58,139	67,717	-	-
Washington....	-	-	90,659	98,739	149,012	215,815
Total.....	12,814	440	964,488	1,052,562	614,853	755,538
U.S. Total.....	7,823,550	7,198,422	14,059,584	15,343,608	6,456,240	7,863,534

W Data withheld to avoid disclosure of individual company data.
r Revised, state totals only.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Pentanes Plus 1990	Pentanes Plus 1989	Total 1990	Total 1989[r]	District & State
				PAD Dist. I
				New England
W	-	66,913	66,551	...Connecticut
W	-	58,427	65,939	.....Maine
-	W	110,542	107,836	.Massachusetts
-	-	89,117	103,733	.New Hampshire
-	-	21,042	21,006	..Rhode Island
-	-	58,854	63,167	.....Vermont
				Central Atlantic
-	-	44,120	46,210	.....Delaware
W	-	82,725	89,909	.Maryland/D.C.
W	W	217,198	265,177	....New Jersey
W	W	236,454	234,261	.....New York
W	W	378,555	321,728	..Pennsylvania
				Lower Atlantic
W	-	326,063	337,805	.....Florida
W	W	254,481	311,645	.....Georgia
W	W	374,428	391,894	North Carolina
W	W	123,108	154,633	South Carolina
W	W	172,043	188,243	.....Virginia
W	W	68,107	64,830	.West Virginia
8,379	6,024	2,682,177	2,834,567	.....Total
				PAD Dist. II
36,223	50,709	902,992	933,182	.....Illinois
72,274	59,107	639,331	453,650	.....Indiana
W	W	270,497	303,871	.....Iowa
822,370	592,805	1,775,053	1,709,667	.....Kansas
W	9,520	308,538	328,208	.....Kentucky
39,560	27,123	710,561	876,342	.....Michigan
W	W	264,011	269,151	.....Minnesota
W	W	289,131	349,144	.....Missouri
W	W	122,505	152,399	.....Nebraska
W	W	76,950	92,317	..North Dakota
W	W	528,702	664,875	.....Ohio
56,108	39,983	269,925	403,338	.....Oklahoma
-	-	155,022	152,153	..South Dakota
W	W	122,767	146,347	.....Tennessee
W	W	280,021	291,014	.....Wisconsin
1,043,619	787,954	6,716,006	7,125,658	.....Total
				PAD Dist. III
W	W	182,252	210,971	.....Alabama
W	W	153,597	161,346	.....Arkansas
588,570	786,470	3,536,074	3,959,744	.....Louisiana
W	320,608	627,218	572,682	...Mississippi
52,051	77,538	436,257	356,557	....New Mexico
2,708,987	2,530,944	16,605,791	17,290,072	.....Texas
3,673,955	3,717,724	21,541,189	22,551,372	.....Total
				PAD Dist. IV
22,342	W	156,110	164,484	.....Colorado
-	-	25,609	35,218	.....Idaho
W	W	185,549	135,177	.....Montana
34,679	42,940	140,934	172,977	.....Utah
28,296	27,245	111,350	160,402	.....Wyoming
85,752	71,129	619,552	668,258	.....Total
				PAD Dist. V
W	W	16,216	11,754	.....Alaska
W	W	71,858	82,860	.....Arizona
143,650	99,275	1,282,488	1,347,366	....California
-	-	7,482	7,817	.....Hawaii
W	W	60,161	75,905	.....Nevada
-	-	58,139	67,717	.....Oregon
W	W	239,728	314,576	....Washington
143,917	99,455	1,736,072	1,907,995	.....Total
4,955,622	4,682,286	33,294,996	35,087,850	.....U.S. Total

Table 3. Sales of Natural Gas Liquids and Liquefied Refinery Gases, by End Use, PAD District and State, 1990 and 1989 (Thousands of Gallons)

District & State	Residential & Commercial 1990	Residential & Commercial 1989r	Internal Combustion Fuel 1990	Internal Combustion Fuel 1989r	Chemical 1/ 1990	Chemical 1/ 1989r	Industrial 2/ 1990	Industrial 2/ 1989r
PAD Dist. I								
New England								
Connecticut	42,335	41,526	3,216	3,104	12,837	W	5,497	14,612
Maine	42,649	45,497	1,528	2,987	W	W	11,708	14,601
Massachusetts	67,115	78,394	5,277	6,069	-	-	8,820	11,297
New Hampshire	71,612	79,730	1,318	1,360	-	-	9,529	9,884
Rhode Island	13,679	13,455	1,708	1,835	-	-	5,219	4,450
Vermont	54,819	57,334	952	1,076	-	-	2,108	3,400
Central Atlantic								
Delaware	28,313	27,003	511	679	W	W	5,173	2,988
Maryland/D.C.	53,830	54,458	4,648	5,676	W	-	12,926	17,117
New Jersey	44,427	64,403	6,652	8,126	109,474	167,452	20,713	17,085
New York	201,571	194,258	13,398	15,077	542	698	12,292	16,386
Pennsylvania	125,135	124,795	13,986	16,762	W	W	51,752	112,416
Lower Atlantic								
Florida	246,525	239,311	18,969	20,916	-	W	21,928	31,732
Georgia	167,985	202,263	9,364	11,514	-	W	25,189	38,252
North Carolina	211,346	238,315	14,259	15,047	-	1,052	44,756	37,072
South Carolina	83,104	103,203	7,727	8,735	W	W	15,456	20,551
Virginia	104,950	102,924	5,654	9,074	W	1,118	29,042	28,292
West Virginia	20,571	19,586	1,682	1,926	W	37,256	4,423	3,082
Total	1,579,966	1,686,455	110,849	129,963	221,235	213,975	286,531	383,217
PAD Dist. II								
Illinois	158,561	173,215	29,221	26,189	96,921	71,842	50,352	49,107
Indiana	172,653	201,762	13,608	14,877	108,566	W	12,245	26,708
Iowa	135,511	166,630	3,762	5,024	W	W	14,440	15,547
Kansas	58,419	71,771	12,656	18,137	307,009	345,628	54,687	50,926
Kentucky	90,201	109,846	5,779	7,136	W	W	142,163	148,855
Michigan	323,039	353,345	25,247	27,903	45,433	W	62,506	106,808
Minnesota	144,908	154,359	5,054	6,048	W	W	29,055	38,166
Missouri	207,201	246,518	10,449	11,406	1,191	585	34,365	36,437
Nebraska	48,323	59,791	5,448	6,437	W	W	11,194	12,815
North Dakota	32,250	41,411	1,242	1,732	W	W	3,576	5,571
Ohio	207,790	223,309	31,883	36,720	W	W	44,662	235,826
Oklahoma	62,940	74,543	8,626	8,366	1,068	83,806	57,852	61,142
South Dakota	85,531	70,154	2,030	1,970	-	-	1,120	6,920
Tennessee	84,815	97,812	11,229	15,261	W	W	21,602	22,704
Wisconsin	206,910	219,643	10,531	11,952	W	W	24,398	20,008
Total	2,019,052	2,264,109	176,765	199,158	694,790	563,887	564,217	837,540
PAD Dist. III								
Alabama	132,824	150,036	8,594	8,713	W	W	10,814	14,957
Arkansas	91,446	100,911	7,404	6,957	W	W	5,297	4,938
Louisiana	38,268	44,647	6,613	7,003	1,769,600	1,689,247	46,567	252,825
Mississippi	106,640	112,215	11,721	10,976	136,530	27,529	20,058	38,892
New Mexico	84,260	60,422	10,486	10,824	246,056	W	7,026	5,012
Texas	303,042	322,839	42,736	44,375	12,004,113	11,898,694	123,197	84,659
Total	756,480	791,070	87,554	88,848	14,157,771	13,807,886	212,959	401,283
PAD Dist. IV								
Colorado	83,834	78,882	6,658	5,812	W	W	26,703	29,444
Idaho	15,737	19,735	4,271	4,025	-	-	2,177	5,674
Montana	40,175	41,037	5,942	5,242	-	-	19,223	13,716
Utah	20,970	23,067	4,518	5,502	W	W	3,525	8,759
Wyoming	24,060	29,209	2,394	3,476	W	W	16,468	55,773
Total	184,776	191,930	23,783	24,057	28,972	57,702	68,096	113,366
PAD Dist. V								
Alaska	14,820	9,780	502	714	-	-	W	759
Arizona	38,143	40,671	4,906	6,231	W	W	14,655	12,257
California	284,187	309,575	82,337	87,034	92,561	11,282	334,300	502,052
Hawaii	W	W	W	W	-	-	-	-
Nevada	40,379	42,107	2,005	1,943	W	W	4,383	10,630
Oregon	18,767	17,724	16,295	18,226	-	-	15,454	19,018
Washington	32,461	30,023	25,960	24,413	W	W	30,809	72,118
Total	435,055	456,761	133,148	139,462	103,558	23,145	399,960	616,834
U.S. Total	4,975,329	5,390,325	532,099	581,488	15,206,326	14,666,595	1,531,763	2,352,240

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and pentanes plus consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use as synthetic natural gas feedstock, and use in secondary recovery of petroleum.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1990	Gas Utility 1989[r]	Farm 1990	Farm 1989[r]	Other 3/ 1990	Other 3/ 1989[r]	Total 1990	Total 1989[r]	District & State
								PAD Dist. I
								New England
-	W	2,448	2,617	W	W	66,913	66,551	...Connecticut
1,199	W	243	217	100	W	58,413	65,939	.....Maine
27,325	10,065	833	715	1,172	1,296	110,542	107,836	.Massachusetts
1,351	W	241	54	5,066	11,204	89,117	103,733	.New Hampshire
W	W	43	W	W	W	21,042	21,006	..Rhode Island
-	W	339	225	W	W	58,854	63,167	.....Vermont
								Central Atlantic
W	-	6,142	7,182	3,717	W	44,101	39,892	.....Delaware
-	-	8,942	9,949	2,330	2,709	82,725	89,909	.Maryland/D.C.
W	906	583	848	1,881	5,411	184,008	264,231	....New Jersey
W	W	5,167	5,340	2,191	2,316	235,610	234,261	.....New York
W	W	18,584	24,018	2,343	8,090	268,323	290,068	..Pennsylvania
								Lower Atlantic
18,399	20,070	13,843	16,995	6,399	8,239	326,063	337,805	.....Florida
W	297	47,597	54,403	3,074	4,266	254,481	311,645	.....Georgia
1,269	W	93,456	94,214	8,545	5,536	374,428	391,894	North Carolina
W	222	15,445	20,185	436	1,485	123,108	154,633	South Carolina
W	W	28,128	32,040	3,339	14,770	172,043	188,243	.....Virginia
-	-	2,798	2,961	W	W	68,107	64,830	.West Virginia
52,564	39,612	244,832	272,006	41,901	70,415	2,537,878	2,795,643	.....Total
								PAD Dist. II
W	121,783	71,783	71,908	6,364	7,524	538,027	521,568	.....Illinois
W	W	78,271	69,071	5,955	8,181	403,669	342,094	.....Indiana
W	W	106,505	108,997	3,757	3,765	270,497	303,871	.....Iowa
W	92,285	32,016	42,585	402,434	295,059	892,310	916,391	.....Kansas
W	W	12,538	16,727	W	2,042	264,096	287,415	.....Kentucky
6,418	W	36,803	31,183	164,805	241,591	664,251	810,844	.....Michigan
W	W	71,041	50,615	531	1,946	251,009	255,681	.....Minnesota
W	W	24,629	27,905	2,205	5,475	289,123	348,923	.....Missouri
-	W	57,091	72,523	48	250	122,505	152,281	.....Nebraska
W	W	16,997	23,579	5,473	802	60,101	73,531	..North Dakota
W	W	58,823	43,008	7,167	6,946	465,325	547,459	.....Ohio
W	W	16,109	13,327	2,224	4,191	148,829	245,380	.....Oklahoma
W	-	65,521	71,810	814	1,299	155,022	152,153	..South Dakota
W	W	3,354	5,312	892	4,698	122,767	146,347	.....Tennessee
W	-	33,981	30,699	4,088	8,658	280,021	291,014	.....Wisconsin
180,082	258,582	685,462	679,249	607,184	592,427	4,927,552	5,394,952	.....Total
								PAD Dist. III
-	W	21,911	25,906	823	1,373	175,742	201,858	.....Alabama
W	W	39,084	36,588	2,606	4,065	147,059	160,554	.....Arkansas
-	-	9,762	8,353	96,064	84,174	1,966,874	2,086,249	.....Louisiana
W	-	14,377	16,576	10,506	989	299,987	207,177	...Mississippi
W	W	4,355	5,285	4,751	12,972	390,971	280,027	....New Mexico
W	W	41,952	49,115	203,876	944,806	12,718,967	13,344,623	.....Texas
34,769	1,199	131,441	141,823	318,626	1,048,379	15,699,600	16,280,488	.....Total
								PAD Dist. IV
-	-	5,511	7,478	1,226	1,926	130,356	156,693	.....Colorado
-	-	2,347	2,825	1,077	2,959	25,609	35,218	.....Idaho
-	-	3,789	2,853	3,961	4,671	73,090	67,519	.....Montana
-	-	1,068	1,565	W	W	45,425	56,729	.....Utah
-	-	1,830	2,380	W	2,631	53,654	102,744	.....Wyoming
-	-	14,545	17,101	7,962	14,747	328,134	418,903	.....Total
								PAD Dist. V
-	-	W	W	W	W	16,113	11,665	.....Alaska
-	W	4,784	4,128	841	2,432	63,367	67,544	.....Arizona
13,491	1,213	40,810	44,006	18,398	41,848	866,084	997,010	....California
-	-	W	W	W	W	7,482	7,817	.....Hawaii
-	-	1,511	1,819	W	5,749	60,161	74,061	.....Nevada
-	W	6,748	7,379	875	5,338	58,139	67,717	.....Oregon
-	-	5,766	5,389	2,190	4,906	97,243	136,871	....Washington
13,491	3,042	59,694	62,763	23,683	60,678	1,168,589	1,362,685	.....Total
280,906	302,435	1,135,974	1,172,942	999,356	1,786,646	24,661,753	26,252,671	.....U.S. Total

Table 4. Sales of Propane, by Use, in the United States, by PAD District and State, 1990 and 1989 (Thousands of Gallons)

District & State	Residential & Commercial 1990	Residential & Commercial 1989r	Internal Combustion Fuel 1990	Internal Combustion Fuel 1989r	Chemical 1/ 1990	Chemical 1/ 1989r	Industrial 2/ 1990	Industrial 2/ 1989r
PAD Dist. I								
New England								
Connecticut	42,335	41,526	3,216	3,104	W	W	5,497	14,612
Maine	42,649	45,497	1,528	2,987	W	W	11,708	14,601
Massachusetts	67,115	78,394	5,277	6,069	-	-	8,820	11,297
New Hampshire	71,612	79,730	1,318	1,360	-	-	9,529	9,884
Rhode Island	13,679	13,455	1,708	1,835	-	-	5,219	4,450
Vermont	54,819	57,334	952	1,076	-	-	2,108	3,400
Central Atlantic								
Delaware	28,313	27,003	511	679	W	W	5,173	2,988
Maryland/D.C.	53,830	54,458	4,648	5,676	-	-	12,926	17,117
New Jersey	44,427	64,403	6,652	8,126	W	143,743	20,713	17,085
New York	201,571	194,258	13,398	15,077	W	595	12,292	16,386
Pennsylvania	125,135	124,795	13,986	16,762	W	-	43,205	84,574
Lower Atlantic								
Florida	246,509	239,276	18,969	20,916	-	-	21,928	31,732
Georgia	167,985	202,263	9,364	11,514	-	-	25,189	38,252
North Carolina	211,346	238,315	14,259	15,047	W	871	44,756	37,072
South Carolina	83,104	103,203	7,727	8,735	-	-	15,456	20,551
Virginia	104,950	102,924	5,654	9,074	W	913	29,042	28,292
West Virginia	20,571	19,586	1,602	1,926	W	W	4,423	3,002
Total	1,579,950	1,686,420	110,849	129,963	201,412	182,247	277,984	355,375
PAD Dist. II								
Illinois	158,561	173,215	29,221	26,189	W	W	26,927	31,138
Indiana	172,653	201,762	13,608	14,877	W	W	12,245	26,577
Iowa	135,511	166,630	3,762	5,024	W	-	14,440	15,547
Kansas	58,419	71,771	12,656	18,137	59,278	88,008	51,100	48,563
Kentucky	90,201	109,846	5,779	7,136	W	W	121,646	132,921
Michigan	323,039	353,345	25,247	27,903	W	W	62,506	90,272
Minnesota	144,908	154,359	5,054	6,048	-	-	29,055	36,555
Missouri	207,201	246,518	10,449	11,406	371	W	34,365	36,437
Nebraska	48,323	59,791	5,448	6,437	W	W	11,189	12,814
North Dakota	32,250	41,411	1,242	1,732	-	-	3,576	5,569
Ohio	207,790	223,309	31,883	36,720	W	-	42,407	174,581
Oklahoma	62,940	74,543	8,626	8,366	242	W	56,081	59,873
South Dakota	85,531	70,154	2,030	1,970	-	-	1,120	6,920
Tennessee	84,815	97,812	11,229	15,261	W	W	21,602	22,704
Wisconsin	206,910	219,643	10,531	11,952	-	-	24,398	20,008
Total	2,019,052	2,264,109	176,765	199,158	333,096	135,801	512,657	720,479
PAD Dist. III								
Alabama	132,816	150,009	8,574	8,713	-	-	10,814	14,892
Arkansas	91,446	100,911	7,404	6,957	-	-	5,297	4,935
Louisiana	38,268	44,647	6,154	6,916	851,078	721,965	29,817	23,441
Mississippi	106,543	112,126	11,721	10,976	W	W	20,049	38,242
New Mexico	84,260	60,422	10,486	10,824	W	-	7,026	4,933
Texas	302,987	322,624	42,686	44,258	4,075,835	4,476,172	81,478	63,425
Total	756,320	790,739	87,025	88,644	5,127,430	5,225,246	154,481	149,868
PAD Dist. IV								
Colorado	83,834	78,882	6,658	5,812	W	W	18,676	20,978
Idaho	15,737	19,735	4,271	4,025	-	-	2,177	5,674
Montana	40,175	41,037	5,942	5,242	-	-	19,223	13,270
Utah	20,970	23,067	4,518	5,502	W	W	3,431	8,603
Wyoming	24,060	29,209	2,394	3,476	W	W	16,143	20,571
Total	184,776	191,930	23,783	24,057	12,999	14,491	59,650	69,096
PAD Dist. V								
Alaska	14,820	9,780	502	714	-	-	W	759
Arizona	38,143	40,671	4,906	6,231	-	-	14,655	12,254
California	283,666	308,358	82,092	86,913	W	W	153,287	235,094
Hawaii	W	W	W	W	-	-	-	-
Nevada	40,379	42,107	2,005	1,935	W	W	4,383	10,630
Oregon	18,767	17,724	16,295	18,226	-	-	15,454	19,018
Washington	32,461	30,023	25,960	24,413	-	-	24,462	34,008
Total	434,534	455,544	132,903	139,333	103,041	22,764	212,600	311,763
U.S. Total	4,974,632	5,388,742	531,325	581,155	5,777,978	5,580,549	1,217,372	1,606,581

1/ The reported data strongly suggest that this category includes not only propane consumed as a chemical feedstock, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility		Farm		Other		Total		
1990	1989[r]	1990	1989[r]	1990	1989[r]	1990	1989[r]	District & State
								PAD Dist. I
								New England
-	W	2,448	2,617	W	W	66,509	66,074	...Connecticut
1,199	W	243	217	100	W	58,413	65,939	.....Maine
27,325	10,065	833	715	1,166	1,048	110,536	107,588	.Massachusetts
1,351	W	241	54	5,066	11,204	89,117	103,733	.New Hampshire
W	W	43	W	W	W	21,042	20,441	..Rhode Island
-	W	339	225	W	W	58,854	63,167	.....Vermont
								Central Atlantic
W	-	6,142	7,182	W	W	41,966	39,892	.....Delaware
-	-	8,942	9,949	2,213	2,641	82,559	89,841	.Maryland/D.C.
W	906	583	848	799	4,381	168,389	239,492	....New Jersey
W	W	5,167	5,340	1,952	2,097	235,259	233,938	.....New York
W	W	18,584	24,018	2,177	7,882	256,626	259,193	..Pennsylvania
								Lower Atlantic
18,399	20,070	13,843	16,995	5,760	8,239	325,408	337,228	.....Florida
W	297	47,597	54,403	1,842	2,797	252,082	309,526	.....Georgia
1,269	W	93,456	94,214	7,982	5,074	373,344	391,251	North Carolina
W	222	15,445	20,185	356	1,382	122,989	154,278	South Carolina
W	W	28,128	32,040	3,326	14,757	171,717	188,025	.....Virginia
-	-	2,798	2,961	W	W	67,802	61,569	.West Virginia
52,349	39,612	244,832	272,006	35,236	65,553	2,502,612	2,731,176	.....Total
								PAD Dist. II
-	5,240	71,783	71,908	5,161	5,441	291,955	313,336	.....Illinois
W	W	78,271	69,071	5,288	5,866	398,236	327,852	.....Indiana
W	W	106,505	108,997	3,752	3,727	265,751	301,706	.....Iowa
W	17,017	32,016	42,585	56,864	84,311	275,720	370,392	.....Kansas
W	W	12,538	16,727	W	1,050	242,063	270,289	.....Kentucky
6,418	W	36,803	31,183	86,481	109,150	584,958	661,358	.....Michigan
W	W	71,041	50,615	248	739	250,357	249,004	.....Minnesota
W	W	24,629	27,905	1,419	4,552	287,517	347,497	.....Missouri
-	-	57,091	72,523	48	235	122,308	152,075	.....Nebraska
W	W	16,997	23,579	5,430	775	59,722	73,144	..North Dakota
W	W	58,823	43,008	6,508	6,433	460,008	484,309	.....Ohio
W	W	16,109	13,327	818	4,191	144,826	160,471	.....Oklahoma
W	-	65,521	71,810	814	1,299	155,022	152,153	..South Dakota
W	W	3,354	5,312	413	3,932	121,609	145,116	.....Tennessee
W	-	33,981	30,699	3,596	8,284	279,422	290,586	.....Wisconsin
35,555	59,807	685,462	679,249	176,887	240,685	3,939,474	4,299,288	.....Total
								PAD Dist. III
-	W	21,911	25,906	823	1,373	174,938	201,596	.....Alabama
-	-	33,074	36,588	2,445	3,461	145,666	152,852	.....Arkansas
-	-	9,762	8,353	2,090	W	937,169	806,226	.....Louisiana
W	-	14,377	16,576	589	971	289,329	206,000	...Mississippi
W	-	4,355	5,205	364	1,171	205,150	82,635	....New Mexico
W	W	41,952	49,093	52,067	524,144	4,597,056	5,479,851	.....Texas
34,243	838	131,431	141,801	58,378	532,024	5,349,308	6,929,160	.....Total
								PAD Dist. IV
-	-	5,511	7,478	1,213	1,926	116,724	116,004	.....Colorado
-	-	2,347	2,825	1,077	2,959	25,609	35,218	.....Idaho
-	-	3,789	2,853	3,961	4,671	73,090	67,073	.....Montana
-	-	1,068	1,565	W	W	38,517	49,354	.....Utah
-	-	1,830	2,380	W	2,631	49,762	63,773	.....Wyoming
-	-	14,545	17,101	7,949	14,747	303,702	331,422	.....Total
								PAD Dist. V
-	-	W	W	W	W	16,113	11,665	.....Alaska
-	W	4,784	4,128	841	2,432	63,329	67,513	.....Arizona
W	W	40,558	43,897	16,186	39,072	668,674	725,099	....California
-	-	W	W	W	W	7,482	7,817	.....Hawaii
-	-	1,511	1,819	W	5,749	60,092	74,012	.....Nevada
-	W	6,748	7,379	875	5,338	58,139	67,717	.....Oregon
-	-	5,766	5,389	2,010	4,906	90,659	98,739	....Washington
677	2,602	59,442	62,654	21,291	57,802	964,488	1,052,562	.....Total
122,824	102,859	1,135,712	1,172,811	299,741	910,911	14,059,584	15,343,608	.....U.S. Total

Table 5. Sales of Butane, by Use, in the United States, by PAD District and State, 1990 and 1989 (Thousands of Gallons)

District & State	Residential & Commercial 1990	Residential & Commercial 1989	Internal Combustion Fuel 1990	Internal Combustion Fuel 1989	Chemical 1/ 1990	Chemical 1/ 1989	Industrial 2/ 1990	Industrial 2/ 1989
PAD Dist. I								
New England								
Connecticut...	-	-	-	-	-	-	-	-
Maine.....	-	-	-	-	-	-	-	-
Massachusetts.	-	-	-	-	-	-	-	-
New Hampshire.	-	-	-	-	-	-	-	-
Rhode Island..	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-
Central Atlantic								
Delaware.....	-	-	-	-	-	-	-	-
Maryland/D.C..	-	-	-	-	-	-	-	-
New Jersey....	-	-	-	-	W	W	-	-
New York.....	-	-	-	-	W	W	-	-
Pennsylvania..	-	-	-	-	-	-	W	27,842
Lower Atlantic								
Florida.....	W	W	-	-	-	-	-	-
Georgia.....	-	-	-	-	-	-	-	-
North Carolina	-	-	-	-	-	W	-	-
South Carolina	-	-	-	-	-	W	-	-
Virginia.....	-	-	-	-	-	W	-	-
West Virginia.	-	-	-	-	-	-	-	-
Total.....	16	35	-	-	12,256	22,175	8,547	27,842
PAD Dist. II								
Illinois.....	-	-	-	-	9,972	W	W	W
Indiana.....	-	-	-	-	-	W	-	-
Iowa.....	-	-	-	-	W	W	-	-
Kansas.....	-	-	-	-	W	25,492	W	W
Kentucky.....	-	-	-	-	-	-	W	W
Michigan.....	-	-	-	-	W	-	-	W
Minnesota.....	-	-	-	-	-	-	-	W
Missouri.....	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	W	-
North Dakota..	-	-	-	-	-	-	-	-
Ohio.....	-	-	-	-	-	-	W	W
Oklahoma.....	-	-	-	-	211	W	W	W
South Dakota..	-	-	-	-	-	-	-	-
Tennessee.....	-	-	-	-	-	-	-	-
Wisconsin.....	-	-	-	-	-	-	-	-
Total.....	-	-	-	-	41,187	43,578	44,088	112,732
PAD Dist. III								
Alabama.....	W	W	W	-	-	W	-	-
Arkansas.....	-	-	-	-	-	W	-	-
Louisiana.....	-	-	W	W	70,587	41,841	W	W
Mississippi...	97	89	-	-	-	-	W	W
New Mexico....	-	-	-	-	W	W	-	W
Texas.....	W	215	W	W	1,085,186	1,853,639	W	W
Total.....	160	331	529	204	1,180,778	1,904,256	54,700	248,367
PAD Dist. IV								
Colorado.....	-	-	-	-	W	W	W	W
Idaho.....	-	-	-	-	-	-	-	-
Montana.....	-	-	-	-	-	-	-	W
Utah.....	-	-	-	-	W	W	W	W
Wyoming.....	-	-	-	-	W	W	-	W
Total.....	-	-	-	-	12,600	13,312	8,121	6,637
PAD Dist. V								
Alaska.....	-	-	-	-	-	-	-	-
Arizona.....	-	-	-	-	-	-	-	W
California....	521	1,217	245	W	-	-	181,013	266,958
Hawaii.....	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	W	-	-	-	-
Oregon.....	-	-	-	-	-	-	-	-
Washington....	-	-	-	-	-	-	W	38,110
Total.....	521	1,217	245	129	-	-	187,360	305,071
U.S. Total.....	697	1,583	774	333	1,246,821	1,983,321	302,816	700,649

1/ The reported data strongly suggest that this category includes not only butane consumed as a chemical feedstock, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use in secondary recovery of petroleum.

W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1990	Gas Utility 1989	Farm 1990	Farm 1989	Other 3/ 1990	Other 3/ 1989	Total 1990	Total 1989	District & State
								PAD Dist. I
								New England
-	-	-	-	W	W	393	477	...Connecticut
-	-	-	-	-	-	-	-	.....Maine
-	-	-	-	W	W	6	244	.Massachusetts
-	-	-	-	-	-	-	-	.New Hampshire
-	-	-	-	-	W	-	565	..Rhode Island
-	-	-	-	-	-	-	-	.....Vermont
								Central Atlantic
-	-	-	-	W	-	2,135	-	.....Delaware
W	-	-	-	W	W	117	68	.Maryland/D.C.
-	-	-	-	W	W	13,541	22,787	....New Jersey
-	-	-	-	W	W	251	223	.....New York
-	-	-	-	W	W	8,713	28,050	..Pennsylvania
								Lower Atlantic
-	-	-	-	-	-	16	35	.....Florida
-	-	-	-	W	W	1,232	1,469	.....Georgia
-	-	-	-	W	W	484	546	North Carolina
-	-	-	-	-	W	-	200	South Carolina
-	-	-	-	W	W	13	148	.....Virginia
-	-	-	-	-	-	-	-	.West Virginia
215	-	-	-	5,867	4,760	26,901	54,812	.....Total
								PAD Dist. II
-	-	-	-	W	W	34,594	36,743	.....Illinois
-	-	-	-	W	W	667	421	.....Indiana
-	-	-	-	W	W	1,890	1,282	.....Iowa
-	-	-	-	W	W	112,855	87,103	.....Kansas
-	-	-	-	-	-	13,104	11,810	.....Kentucky
-	-	-	-	W	W	41,771	67,984	.....Michigan
-	-	-	-	W	W	283	2,159	.....Minnesota
-	-	-	-	W	W	786	923	.....Missouri
-	-	-	-	-	-	5	-	.....Nebraska
-	-	-	-	-	-	-	-	..North Dakota
-	-	-	-	W	W	2,914	61,750	.....Ohio
-	-	-	-	W	-	2,154	1,417	.....Oklahoma
-	-	-	-	-	-	-	-	..South Dakota
-	-	-	-	W	W	479	866	.....Tennessee
-	-	-	-	W	W	492	374	.....Wisconsin
-	-	-	-	126,719	116,522	211,994	272,832	.....Total
								PAD Dist. III
-	-	-	-	-	-	28	35	.....Alabama
-	-	W	-	W	W	171	257	.....Arkansas
-	-	-	-	28,357	W	116,153	271,313	.....Louisiana
-	-	-	-	W	W	10,023	747	...Mississippi
-	-	-	-	W	-	29,392	8,622	....New Mexico
-	-	-	W	22,389	W	1,145,621	1,894,140	.....Texas
-	-	10	22	65,211	21,934	1,301,388	2,175,114	.....Total
								PAD Dist. IV
-	-	-	-	W	-	10,711	8,208	.....Colorado
-	-	-	-	-	-	-	-	.....Idaho
-	-	-	-	-	-	-	446	.....Montana
-	-	-	-	-	-	6,448	6,851	.....Utah
-	-	-	-	-	-	3,567	4,444	.....Wyoming
-	-	-	-	5	-	20,726	19,949	.....Total
								PAD Dist. V
-	-	-	-	-	-	-	-	.....Alaska
-	-	-	-	-	-	-	3	.....Arizona
-	-	W	W	W	W	184,109	271,168	....California
-	-	-	-	-	-	-	-	.....Hawaii
-	-	-	-	-	-	-	8	.....Nevada
-	-	-	-	-	-	-	-	.....Oregon
-	-	-	-	W	-	6,527	38,110	....Washington
-	-	252	109	2,258	2,763	190,636	309,289	.....Total
215	-	262	131	200,060	145,979	1,751,645	2,831,996	.....U.S. Total

Table 6. Sales of Ethane by use, in the United States, by PAD District, 1990 and 1989 (Thousands of Gallons)

District	Residential & Commercial 1990	Residential & Commercial 1989	Internal Combustion Fuel 1990	Internal Combustion Fuel 1989	Chemical 1990	Chemical 1989	Industrial 1/ 1990	Industrial 1/ 1989
PAD Dist. I	-	-	-	-	-	3,631	-	-
PAD Dist. II	-	-	-	-	282,737	374,486	7,472	4,329
PAD Dist. III	-	-	-	-	7,145,276	5,989,366	3,778	3,048
PAD Dist. IV	-	-	-	-	2,913	29,549	325	37,633
PAD Dist. V	-	-	-	-	-	-	-	-
U.S. Total.....	-	-	-	-	7,430,926	6,397,032	11,575	45,010

Table 7. Sales of Pentanes Plus by Use, in the United States, by PAD District, 1990 and 1989 (Thousands of Gallons)

District	Residential & Commercial 1990	Residential & Commercial 1989	Internal Combustion Fuel 1990	Internal Combustion Fuel 1989	Chemical 1990	Chemical 1989	Industrial 1/ 1990	Industrial 1/ 1989
PAD Dist. I	-	-	-	-	7,567	5,922	-	-
PAD Dist. II	-	-	-	-	37,770	10,022	-	-
PAD Dist. III	-	-	-	-	704,287	689,018	-	-
PAD Dist. IV	-	-	-	-	460	350	-	-
PAD Dist. V	-	-	-	-	517	381	-	-
U.S. Total.....	-	-	-	-	750,601	705,693	-	-

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and pentanes plus consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility		Farm		Other 2/		Total		
1990	1989	1990	1989	1990	1989	1990	1989	District
-	-	-	-	-	-	-	3,631	PAD Dist. I
144,527	198,775	-	-	51,714	63,665	486,450	641,255	PAD Dist. II
526	361	-	-	171,464	493,139	7,321,044	6,485,914	PAD Dist. III
-	-	-	-	4	-	3,242	67,182	PAD Dist. IV
12,814	440	-	-	-	-	12,814	440	PAD Dist. V
157,867	199,576	-	-	223,182	556,804	7,823,550	7,198,422	.....U.S. Total

Gas Utility		Farm		Other 2/		Total		
1990	1989	1990	1989	1990	1989	1990	1989	District
-	-	-	-	798	102	8,365	6,024	PAD Dist. I
-	-	-	-	251,864	171,555	289,634	181,577	PAD Dist. II
-	-	-	-	23,573	1,282	727,860	690,300	PAD Dist. III
-	-	-	-	4	-	464	350	PAD Dist. IV
-	-	-	-	134	13	651	394	PAD Dist. V
-	-	-	-	276,373	172,952	1,026,974	878,645	.....U.S. Total

Table 8. Sales of Natural Gas Liquids and Liquefied Refinery Gases for Gasoline Blending by Product Type, PAD District and State, 1990 and 1989 (Thousands of Gallons)

District & State	Butane		Pentanes Plus		Total	
	1990	1989	1990	1989	1990	1989
PAD Dist. I						
New England						
Connecticut...	-	-	-	-	-	-
Maine.....	-	-	W	-	14	-
Massachusetts.	-	-	-	-	-	-
New Hampshire.	-	-	-	-	-	-
Rhode Island..	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-
Central Atlantic						
Delaware.....	W	W	-	-	19	6,318
Maryland/D.C..	-	-	-	-	-	-
New Jersey....	W	W	-	-	33,190	946
New York.....	W	-	-	-	844	-
Pennsylvania..	110,232	31,660	-	-	110,232	31,660
Lower Atlantic						
Florida.....	-	-	-	-	-	-
Georgia.....	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-
Virginia.....	-	-	-	-	-	-
West Virginia.	-	-	-	-	-	-
Total.....	144,285	38,924	14	-	144,299	38,924
PAD Dist. II						
Illinois.....	336,224	364,655	W	46,959	364,965	411,614
Indiana.....	164,486	52,914	W	W	235,662	111,556
Iowa.....	-	-	-	-	-	-
Kansas.....	293,568	349,730	589,175	443,546	882,743	793,276
Kentucky.....	W	W	W	W	44,442	40,793
Michigan.....	44,272	61,344	W	W	46,310	65,498
Minnesota.....	W	W	-	-	13,002	13,470
Missouri.....	W	W	-	-	8	221
Nebraska.....	-	W	-	W	-	118
North Dakota..	15,677	13,761	W	W	16,849	18,786
Ohio.....	63,377	117,416	-	-	63,377	117,416
Oklahoma.....	66,509	118,295	54,587	39,663	121,096	157,958
South Dakota..	-	-	-	-	-	-
Tennessee.....	-	-	-	-	-	-
Wisconsin.....	-	-	-	-	-	-
Total.....	1,034,469	1,124,329	753,985	606,377	1,788,454	1,730,706
PAD Dist. III						
Alabama.....	5,659	7,695	W	W	6,510	9,113
Arkansas.....	W	W	-	-	6,538	792
Louisiana.....	1,040,637	1,266,694	528,563	606,801	1,569,200	1,873,495
Mississippi...	W	45,317	W	W	327,231	365,505
New Mexico....	18,191	32,505	27,095	44,025	45,286	76,530
Texas.....	1,818,627	1,890,457	2,068,197	2,054,992	3,886,824	3,945,449
Total.....	2,895,494	3,243,460	2,946,095	3,027,424	5,841,589	6,270,884
PAD Dist. IV						
Colorado.....	3,416	7,303	22,338	W	25,754	7,791
Idaho.....	-	-	-	-	-	-
Montana.....	112,024	67,202	W	W	112,459	67,658
Utah.....	61,290	73,658	34,219	42,590	95,509	116,248
Wyoming.....	29,400	30,413	28,296	27,245	57,696	57,658
Total.....	206,130	178,576	85,288	70,779	291,418	249,355
PAD Dist. V						
Alaska.....	-	-	W	W	103	89
Arizona.....	8,491	15,316	-	-	8,491	15,316
California....	273,241	251,384	143,163	98,972	416,404	350,356
Hawaii.....	-	-	-	-	-	-
Nevada.....	-	W	-	-	-	1,844
Oregon.....	-	-	-	-	-	-
Washington....	142,485	177,705	-	-	142,485	177,705
Total.....	424,217	446,249	143,266	99,061	567,483	545,310
U.S. Total.....	4,704,595	5,031,538	3,928,648	3,803,641	8,633,243	8,835,179

W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

REVISIONS

Table 2. Sales of Natural Gas Liquids and Liquefied Refinery Gases by Product Type, PAD District and State, 1989 and 1988 (Thousands of Gallons)

District & State	Ethane		Propane		Butane	
	1989	1988	1989[r]	1988[r]	1989	1988
PAD Dist. I						
New England						
Connecticut	-	-	66,074	63,164	W	W
Maine	-	-	65,939	67,555	-	-
Massachusetts	-	-	107,588	99,149	W	W
New Hampshire	-	-	103,733	87,541	-	-
Rhode Island	-	-	20,441	23,055	W	W
Vermont	-	-	63,167	48,573	-	-
Central Atlantic						
Delaware	-	-	39,892	38,490	W	W
Maryland/D.C.	-	-	89,841	71,280	W	W
New Jersey	-	-	239,492	266,776	23,733	69,414
New York	-	-	233,939	219,975	W	W
Pennsylvania	-	-	259,193	238,111	59,710	120,442
Lower Atlantic						
Florida	W	W	337,228	336,517	W	W
Georgia	-	-	309,526	281,021	W	W
North Carolina	-	-	391,251	329,225	W	W
South Carolina	-	-	154,278	148,301	W	W
Virginia	-	-	188,025	177,812	W	764
West Virginia	W	-	61,569	51,679	-	-
Total	3,631	347	2,731,176	2,548,224	93,736	206,930
PAD Dist. II						
Illinois	167,739	1,267,364	313,336	533,348	401,398	508,107
Indiana	W	-	327,852	272,503	53,335	81,163
Iowa	-	-	301,706	276,116	W	W
Kansas	309,637	283,749	370,392	303,695	436,833	631,114
Kentucky	W	W	270,289	258,701	44,275	85,443
Michigan	W	W	661,358	611,433	129,328	157,563
Minnesota	W	-	249,004	232,111	W	W
Missouri	-	-	347,497	274,982	W	1,292
Nebraska	W	-	152,075	146,864	W	W
North Dakota	W	-	73,144	62,607	13,761	28,821
Ohio	W	-	484,309	445,852	179,166	82,621
Oklahoma	W	2,115	160,471	144,682	119,712	172,224
South Dakota	-	-	152,153	66,305	-	-
Tennessee	-	-	145,116	129,346	W	W
Wisconsin	-	-	290,586	252,749	W	W
Total	641,255	1,646,698	4,299,288	4,011,294	1,397,161	1,769,754
PAD Dist. III						
Alabama	W	W	201,596	184,801	7,730	7,868
Arkansas	W	-	152,852	149,004	1,049	2,443
Louisiana	829,041	977,100	806,226	653,964	1,538,007	1,766,051
Mississippi	W	-	206,000	154,447	46,064	62,486
New Mexico	W	W	82,635	60,655	41,127	17,704
Texas	5,494,680	5,365,424	5,479,851	5,262,147	3,784,597	3,297,522
Total	6,485,914	6,342,970	6,929,160	6,465,018	5,418,574	5,154,074
PAD Dist. IV						
Colorado	W	-	116,004	107,004	15,511	12,442
Idaho	-	-	35,218	31,381	-	W
Montana	-	-	67,073	54,257	67,648	69,274
Utah	W	-	49,354	44,373	80,509	67,310
Wyoming	W	W	63,773	72,189	34,857	43,585
Total	67,182	522	331,422	309,204	198,525	192,620
PAD Dist. V						
Alaska	-	-	11,665	11,629	-	W
Arizona	-	-	67,513	70,315	15,319	13,641
California	W	W	725,099	689,844	522,552	565,232
Hawaii	-	-	W	W	-	-
Nevada	-	-	74,012	46,125	W	W
Oregon	-	-	67,717	66,278	-	W
Washington	-	-	98,739	90,372	215,815	146,511
Total	440	40,325	1,052,562	982,044	755,538	726,762
U.S. Total	7,198,422	8,030,862	15,343,608	14,315,784	7,863,534	8,050,140

W Data withheld to avoid disclosure of individual company data.
r Revised, state totals only.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Pentanes Plus 1989	Pentanes Plus 1988	Total 1989[r]	Total 1988[r]	District & State
				PAD Dist. I
				New England
-	W	66,551	66,436	...Connecticut
-	-	65,939	67,555	.....Maine
W	W	107,836	99,741	.Massachusetts
-	-	103,733	87,541	.New Hampshire
-	-	21,006	23,706	..Rhode Island
-	-	63,167	48,573	.....Vermont
				Central Atlantic
-	-	46,210	49,290	.....Delaware
-	-	89,909	71,387	.Maryland/D.C.
W	W	265,177	337,767	....New Jersey
W	W	234,261	220,455	.....New York
W	W	321,728	360,225	..Pennsylvania
				Lower Atlantic
-	W	337,805	352,587	.....Florida
W	W	311,645	283,432	.....Georgia
W	W	391,894	330,462	North Carolina
W	W	154,633	148,595	South Carolina
W	-	188,243	178,576	.....Virginia
W	W	64,830	51,820	.West Virginia
6,024	22,647	2,834,567	2,778,148	.....Total
				PAD Dist. II
50,709	34,395	933,182	2,343,214	.....Illinois
59,107	54,073	453,650	407,739	.....Indiana
W	W	303,871	279,187	.....Iowa
592,805	746,139	1,709,667	1,964,697	.....Kansas
9,520	10,216	328,208	389,845	.....Kentucky
27,123	W	876,342	849,973	.....Michigan
W	W	269,151	249,986	.....Minnesota
W	W	349,144	276,679	.....Missouri
W	W	152,399	147,375	.....Nebraska
W	6,371	92,317	97,799	..North Dakota
W	W	664,875	529,801	.....Ohio
39,983	44,040	403,338	363,061	.....Oklahoma
-	-	152,153	66,305	..South Dakota
W	W	146,347	130,935	.....Tennessee
W	W	291,014	253,231	.....Wisconsin
787,954	922,081	7,125,658	8,349,827	.....Total
				PAD Dist. III
W	1,571	210,971	194,587	.....Alabama
W	W	161,346	151,947	.....Arkansas
786,470	986,162	3,959,744	4,383,277	.....Louisiana
320,608	194,357	572,682	411,290	...Mississippi
77,538	41,070	356,557	119,528	....New Mexico
2,530,944	2,402,823	17,290,072	16,327,916	.....Texas
3,717,724	3,626,483	22,551,372	21,588,545	.....Total
				PAD Dist. IV
W	3,924	164,484	123,370	.....Colorado
-	-	35,218	31,390	.....Idaho
W	2,282	135,177	125,813	.....Montana
42,940	35,803	172,977	147,486	.....Utah
27,245	19,342	160,402	135,638	.....Wyoming
71,129	61,351	668,258	563,697	.....Total
				PAD Dist. V
W	W	11,754	11,811	.....Alaska
W	W	82,860	83,988	.....Arizona
99,275	175,285	1,347,366	1,470,686	....California
-	-	7,817	7,481	.....Hawaii
W	W	75,905	47,355	.....Nevada
-	-	67,717	66,399	.....Oregon
W	-	314,576	236,883	....Washington
99,455	175,472	1,907,995	1,924,603	.....Total
4,682,286	4,808,034	35,087,850	35,204,820	.....U.S. Total

Table 2. Sales of Natural Gas Liquids and Liquefied Refinery Gases by Product Type, PAD District and State, 1988 and 1987 (Thousands of Gallons)

District & State	Ethane 1988	Ethane 1987	Propane 1988[r]	Propane 1987[r]	Butane 1988	Butane 1987
PAD Dist. I						
New England						
Connecticut...	-	-	63,164	64,725	W	W
Maine.....	-	-	67,555	54,722	-	-
Massachusetts.	-	-	99,149	109,897	W	W
New Hampshire.	-	-	87,541	86,351	-	-
Rhode Island..	-	-	23,055	26,432	W	W
Vermont.....	-	-	48,573	46,237	-	-
Central Atlantic						
Delaware.....	-	-	38,490	38,575	W	W
Maryland/D.C..	-	-	71,280	73,113	W	W
New Jersey....	-	-	266,776	223,383	69,414	174,962
New York.....	-	-	219,975	229,876	W	W
Pennsylvania..	-	W	238,111	217,932	120,442	W
Lower Atlantic						
Florida.....	W	W	336,517	365,292	W	W
Georgia.....	-	-	281,021	265,079	W	W
North Carolina	-	-	329,225	367,272	W	W
South Carolina	-	-	148,301	151,769	W	W
Virginia.....	-	-	177,812	173,168	764	W
West Virginia.	-	-	51,679	50,495	-	-
Total.....	347	99,241	2,548,224	2,544,318	206,930	340,617
PAD Dist. II						
Illinois.....	1,267,364	959,620	533,348	669,993	508,107	479,560
Indiana.....	-	-	272,503	249,244	81,163	31,210
Iowa.....	-	-	276,116	254,283	W	W
Kansas.....	283,749	287,815	303,695	177,134	631,114	582,250
Kentucky.....	W	W	258,701	278,831	85,443	112,950
Michigan.....	W	-	611,433	644,758	157,563	153,185
Minnesota.....	-	-	232,111	223,251	W	W
Missouri.....	-	-	274,982	260,939	1,292	1,213
Nebraska.....	-	-	146,864	135,162	W	1,068
North Dakota..	-	-	62,607	67,124	28,821	35,309
Ohio.....	-	W	445,852	453,621	82,621	W
Oklahoma.....	2,115	1,393	144,682	146,888	172,224	185,770
South Dakota..	-	-	66,305	99,019	-	W
Tennessee.....	-	-	129,346	108,397	W	W
Wisconsin.....	-	-	252,749	236,476	W	W
Total.....	1,646,698	1,459,747	4,011,294	4,005,120	1,769,754	1,644,765
PAD Dist. III						
Alabama.....	W	-	184,801	194,178	7,868	8,015
Arkansas.....	-	-	149,004	146,806	2,443	2,666
Louisiana.....	977,100	1,063,420	653,964	537,802	1,766,051	1,755,485
Mississippi...	-	-	154,447	147,715	62,486	31,917
New Mexico....	W	W	60,655	64,723	17,704	2,678
Texas.....	5,365,424	4,825,781	5,262,147	5,363,882	3,297,522	2,736,215
Total.....	6,342,970	5,889,216	6,465,018	6,455,106	5,154,074	4,536,976
PAD Dist. IV						
Colorado.....	-	-	107,004	92,968	12,442	15,008
Idaho.....	-	-	31,381	26,094	W	W
Montana.....	-	-	54,257	52,498	69,274	91,762
Utah.....	-	-	44,373	43,140	67,310	90,781
Wyoming.....	W	W	72,189	94,042	43,585	58,277
Total.....	522	446	309,204	308,742	192,620	256,080
PAD Dist. V						
Alaska.....	-	-	11,629	11,373	W	-
Arizona.....	-	-	70,315	74,780	13,641	22,832
California....	W	W	689,844	700,926	565,232	592,641
Hawaii.....	-	-	W	W	-	-
Nevada.....	-	-	46,125	39,405	W	-
Oregon.....	-	-	66,278	62,208	W	W
Washington....	-	-	90,372	85,287	146,511	195,384
Total.....	40,325	32,642	982,044	980,574	726,762	811,214
U.S. Total.....	8,030,862	7,481,292	14,315,784	14,293,860	8,050,140	7,589,652

W Data withheld to avoid disclosure of individual company data.
r Revised, state totals only.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Pentanes Plus 1988	Pentanes Plus 1987	Total 1988[r]	Total 1987[r]	District & State
				PAD Dist. I
				New England
W	-	66,436	65,418	...Connecticut
-	-	67,555	54,722	.....Maine
W	W	99,741	110,720	.Massachusetts
-	-	87,541	86,351	.New Hampshire
-	-	23,706	28,079	..Rhode Island
-	-	48,573	46,237	.....Vermont
				Central Atlantic
-	-	49,290	54,975	.....Delaware
-	-	71,387	73,304	.Maryland/D.C.
W	W	337,767	400,526	....New Jersey
W	W	220,455	229,972	.....New York
W	W	360,225	499,941	..Pennsylvania
				Lower Atlantic
W	W	352,587	394,200	.....Florida
W	W	283,432	266,969	.....Georgia
W	W	330,462	369,488	North Carolina
W	W	148,595	152,153	South Carolina
-	W	178,576	173,491	.....Virginia
W	W	51,820	50,634	.West Virginia
22,647	73,004	2,778,148	3,057,180	.....Total
				PAD Dist. II
34,395	62,771	2,343,214	2,171,944	.....Illinois
54,073	100,401	407,739	380,855	.....Indiana
W	W	279,187	257,050	.....Iowa
746,139	727,963	1,964,697	1,775,162	.....Kansas
10,216	17,818	389,845	414,920	.....Kentucky
W	27,472	849,973	825,415	.....Michigan
W	W	249,986	237,796	.....Minnesota
W	W	276,679	262,619	.....Missouri
W	403	147,375	136,633	.....Nebraska
6,371	25,616	97,799	128,049	..North Dakota
W	W	529,801	704,307	.....Ohio
44,040	52,633	363,061	386,684	.....Oklahoma
-	-	66,305	99,387	..South Dakota
W	W	130,935	109,963	.....Tennessee
W	W	253,231	236,605	.....Wisconsin
922,081	1,017,757	8,349,827	8,127,389	.....Total
				PAD Dist. III
1,571	W	194,587	203,211	.....Alabama
W	W	151,947	149,995	.....Arkansas
986,162	758,965	4,383,277	4,115,672	.....Louisiana
194,357	W	411,290	179,958	...Mississippi
41,070	59,271	119,528	126,687	....New Mexico
2,402,823	2,462,598	16,327,916	15,388,476	.....Texas
3,626,483	3,282,701	21,588,545	20,163,999	.....Total
				PAD Dist. IV
3,924	3,233	123,370	111,209	.....Colorado
-	-	31,390	26,346	.....Idaho
2,282	5,645	125,813	149,905	.....Montana
35,803	31,214	147,486	165,135	.....Utah
19,342	28,207	135,638	180,972	.....Wyoming
61,351	68,299	563,697	633,567	.....Total
				PAD Dist. V
W	W	11,811	11,377	.....Alaska
W	W	83,988	97,672	.....Arizona
175,285	157,578	1,470,686	1,483,787	....California
-	-	7,481	6,595	.....Hawaii
W	W	47,355	39,415	.....Nevada
-	W	66,399	62,574	.....Oregon
-	-	236,883	280,671	....Washington
175,472	157,661	1,924,603	1,982,091	.....Total
4,808,034	4,599,422	35,204,820	33,964,226	.....U.S. Total

Table 2. Sales of Natural Gas Liquids and Liquefied Refinery Gases by Product Type, PAD District and State, 1987 and 1986 (Thousands of Gallons)

District & State	Ethane 1987	Ethane 1986	Propane 1987[r]	Propane 1986[r]	Butane 1987	Butane 1986
PAD Dist. I						
New England						
Connecticut	-	W	64,725	44,886	W	W
Maine	-	-	54,722	43,612	-	-
Massachusetts	-	W	109,897	91,021	W	W
New Hampshire	-	-	66,351	70,544	-	-
Rhode Island	-	-	26,432	18,863	W	W
Vermont	-	-	46,237	36,432	-	-
Central Atlantic						
Delaware	-	-	38,575	32,865	W	W
Maryland/D.C.	-	W	73,113	58,597	W	W
New Jersey	-	-	223,383	189,446	174,962	184,253
New York	-	-	229,876	204,861	W	W
Pennsylvania	W	W	217,932	187,462	W	312,672
Lower Atlantic						
Florida	W	20,144	365,292	421,835	W	4,310
Georgia	-	-	265,079	264,406	W	W
North Carolina	-	-	367,272	301,340	W	W
South Carolina	-	-	151,769	120,674	W	W
Virginia	-	-	173,168	141,827	W	W
West Virginia	-	-	50,495	48,191	-	W
Total	99,241	117,600	2,544,318	2,276,862	340,617	536,913
PAD Dist. II						
Illinois	959,620	629,113	669,993	549,332	479,560	679,054
Indiana	-	W	249,244	213,756	31,210	97,390
Iowa	-	W	254,283	366,028	W	W
Kansas	287,815	437,118	177,134	126,280	582,250	483,638
Kentucky	W	W	278,831	190,632	112,950	118,286
Michigan	-	W	644,758	538,091	153,185	169,170
Minnesota	-	-	223,251	257,623	W	W
Missouri	-	-	260,939	247,715	1,213	W
Nebraska	-	-	135,162	102,807	1,068	534
North Dakota	-	-	67,124	59,310	35,309	56,741
Ohio	W	W	453,621	390,228	W	61,574
Oklahoma	1,393	2,280	146,888	140,660	185,770	217,804
South Dakota	-	-	99,019	65,801	W	-
Tennessee	-	-	108,397	111,029	W	W
Wisconsin	-	-	236,476	224,820	W	W
Total	1,459,747	1,326,464	4,005,120	3,584,112	1,644,765	1,910,286
PAD Dist. III						
Alabama	-	W	194,178	168,818	8,015	501
Arkansas	-	-	146,806	159,432	2,666	5,535
Louisiana	1,063,420	1,129,731	537,802	761,466	1,755,485	1,750,134
Mississippi	-	-	147,715	148,065	31,917	25,033
New Mexico	W	-	64,723	68,067	2,678	22,725
Texas	4,825,781	4,987,792	5,363,882	4,470,706	2,736,215	2,472,176
Total	5,889,216	6,117,574	6,455,106	5,776,554	4,536,976	4,276,104
PAD Dist. IV						
Colorado	-	-	92,968	88,085	15,008	8,302
Idaho	-	-	26,094	30,870	W	-
Montana	-	-	52,498	63,212	91,762	W
Utah	-	-	43,140	37,720	90,781	78,249
Wyoming	W	W	94,042	56,389	58,277	107,973
Total	446	1,132	308,742	276,276	256,080	196,644
PAD Dist. V						
Alaska	-	-	11,373	W	-	-
Arizona	-	-	74,780	68,439	22,832	9,711
California	W	W	700,926	617,999	592,641	356,327
Hawaii	-	-	W	W	-	-
Nevada	-	-	39,405	38,797	-	W
Oregon	-	-	62,208	63,471	W	W
Washington	-	-	85,287	72,212	195,384	112,405
Total	32,642	64,388	980,574	877,464	811,214	478,815
U.S. Total	7,481,292	7,627,158	14,293,860	12,791,268	7,589,652	7,398,762

W Data withheld to avoid disclosure of individual company data.
r Revised, state totals only.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Pentanes Plus 1987	Pentanes Plus 1986	Total 1987[r]	Total 1986[r]	District & State
				PAD Dist. I
				New England
-	W	65,418	47,683	...Connecticut
-	-	54,722	43,612	.....Maine
W	W	110,720	96,959	.Massachusetts
-	-	86,351	70,544	.New Hampshire
-	-	28,079	24,573	..Rhode Island
-	-	46,237	36,432	.....Vermont
				Central Atlantic
-	-	54,975	50,737	.....Delaware
-	-	73,304	60,144	.Maryland/D.C.
W	W	400,526	388,706	....New Jersey
W	W	229,972	206,088	.....New York
W	W	499,941	611,047	..Pennsylvania
				Lower Atlantic
W	W	394,200	632,327	.....Florida
W	W	266,969	274,628	.....Georgia
W	W	369,488	306,674	North Carolina
W	W	152,153	122,512	South Carolina
W	W	173,491	142,286	.....Virginia
W	W	50,634	49,943	.West Virginia
73,004	233,520	3,057,180	3,164,895	.....Total
				PAD Dist. II
62,771	171,483	2,171,944	2,028,982	.....Illinois
100,401	W	380,855	455,871	.....Indiana
W	W	257,050	369,236	.....Iowa
727,963	551,079	1,775,162	1,598,115	.....Kansas
17,818	23,936	414,920	359,104	.....Kentucky
27,472	46,975	825,415	754,503	.....Michigan
W	W	237,796	279,086	.....Minnesota
W	W	262,619	248,673	.....Missouri
403	539	136,633	103,880	.....Nebraska
25,616	11,866	128,049	127,917	..North Dakota
W	W	704,307	662,962	.....Ohio
52,633	76,817	386,684	437,561	.....Oklahoma
-	-	99,387	65,801	..South Dakota
W	W	109,963	112,841	.....Tennessee
W	W	236,605	225,212	.....Wisconsin
1,017,757	1,008,882	8,127,389	7,829,744	.....Total
				PAD Dist. III
W	1,076	203,211	170,446	.....Alabama
W	W	149,995	165,287	.....Arkansas
758,965	469,979	4,115,672	4,111,310	.....Louisiana
W	W	179,958	173,287	...Mississippi
59,271	51,539	126,687	142,331	....New Mexico
2,462,598	2,100,427	15,388,476	14,031,101	.....Texas
3,282,701	2,623,530	20,163,999	18,793,762	.....Total
				PAD Dist. IV
3,233	24,380	111,209	120,767	.....Colorado
-	-	26,346	30,870	.....Idaho
5,645	W	149,905	79,350	.....Montana
31,214	212,822	165,135	328,791	.....Utah
28,207	111,366	180,972	276,860	.....Wyoming
68,299	362,586	633,567	836,638	.....Total
				PAD Dist. V
W	-	11,377	11,260	.....Alaska
W	W	97,672	78,526	.....Arizona
157,578	261,211	1,483,787	1,299,925	....California
-	-	6,595	5,286	.....Hawaii
W	-	39,415	38,933	.....Nevada
W	W	62,574	63,780	.....Oregon
-	-	280,671	184,617	....Washington
157,661	261,660	1,982,091	1,682,327	.....Total
4,599,422	4,490,178	33,964,226	32,307,366	.....U.S. Total

Table 2. Sales of Natural Gas Liquids and Liquefied Refinery Gases by Product Type, PAD District and State, 1986 and 1985 (Thousands of Gallons)

District & State	Ethane		Propane		Butane	
	1986	1985	1986[r]	1985[r]	1986	1985
PAD Dist. I						
New England						
Connecticut...	W	-	44,886	52,927	W	W
Maine.....	-	-	43,612	28,325	-	-
Massachusetts.	W	-	91,021	69,589	W	W
New Hampshire.	-	-	70,544	66,616	-	-
Rhode Island..	-	-	18,863	21,038	W	-
Vermont.....	-	-	36,432	33,201	-	-
Central Atlantic						
Delaware.....	-	-	32,865	41,100	W	W
Maryland/D.C..	W	-	58,597	75,669	W	W
New Jersey....	-	W	189,446	232,860	182,253	108,163
New York.....	-	-	204,861	206,680	W	W
Pennsylvania..	W	W	187,462	253,727	312,672	172,666
Lower Atlantic						
Florida.....	20,144	18,196	421,835	388,684	4,310	30,099
Georgia.....	-	-	264,406	285,346	W	W
North Carolina	-	-	301,340	314,839	W	W
South Carolina	-	-	120,674	132,711	W	750
Virginia.....	-	-	141,827	164,772	W	W
West Virginia.	-	-	48,191	48,092	W	W
Total.....	117,600	60,480	2,276,862	2,416,176	536,913	325,206
PAD Dist. II						
Illinois.....	629,113	550,683	549,332	464,635	679,054	706,779
Indiana.....	W	-	213,756	202,679	97,390	37,097
Iowa.....	W	W	366,028	354,247	W	W
Kansas.....	437,118	297,226	126,280	585,663	483,638	584,110
Kentucky.....	W	W	190,632	192,615	118,286	97,903
Michigan.....	W	W	538,091	446,390	169,170	161,784
Minnesota.....	-	-	257,623	219,963	W	W
Missouri.....	-	-	247,715	233,430	W	8,007
Nebraska.....	-	-	102,807	108,751	534	W
North Dakota..	-	-	59,310	17,075	56,741	47,922
Ohio.....	W	W	390,228	395,241	61,574	105,736
Oklahoma.....	2,280	20,415	140,660	210,934	217,804	249,621
South Dakota..	-	-	65,801	51,534	-	W
Tennessee.....	-	-	111,029	94,901	W	W
Wisconsin.....	-	-	224,820	225,378	W	W
Total.....	1,326,464	1,701,630	3,584,112	3,803,436	1,910,286	2,032,152
PAD Dist. III						
Alabama.....	W	-	168,818	153,084	501	313
Arkansas.....	-	-	159,432	154,091	5,535	2,597
Louisiana.....	1,129,731	1,677,244	761,466	730,454	1,750,134	1,528,515
Mississippi...	-	-	148,065	186,191	25,033	21,328
New Mexico....	-	-	68,067	122,299	22,725	26,736
Texas.....	4,987,792	5,340,069	4,470,706	4,783,949	2,472,176	2,022,441
Total.....	6,117,574	7,017,313	5,776,554	6,130,068	4,276,104	3,601,930
PAD Dist. IV						
Colorado.....	-	W	88,085	93,966	8,302	11,290
Idaho.....	-	-	30,870	32,671	-	-
Montana.....	-	-	63,212	55,549	W	W
Utah.....	-	-	37,720	51,963	78,249	55,803
Wyoming.....	W	W	56,389	59,053	107,973	93,627
Total.....	1,132	1,687	276,276	293,202	196,644	244,751
PAD Dist. V						
Alaska.....	-	-	W	W	-	-
Arizona.....	-	-	68,439	70,324	9,711	W
California....	W	W	617,999	655,185	356,327	372,742
Hawaii.....	-	-	W	W	-	-
Nevada.....	-	-	38,797	43,809	W	W
Oregon.....	-	-	63,471	63,821	W	W
Washington....	-	-	72,212	78,559	112,405	173,475
Total.....	64,388	51,658	877,464	931,182	478,815	562,245
U.S. Total.....	7,627,158	8,832,768	12,791,268	13,574,064	7,398,762	6,766,284

W Data withheld to avoid disclosure of individual company data.
r Revised, state totals only.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Pentanes Plus 1986	Pentanes Plus 1985	Total 1986[r]	Total 1985[r]	District & State
				PAD Dist. I
				New England
W	-	47,683	53,867	...Connecticut
-	-	43,612	28,325	.....Maine
W	W	96,959	74,596	.Massachusetts
-	-	70,544	66,616	.New Hampshire
-	-	24,573	21,038	..Rhode Island
-	-	36,432	33,201	.....Vermont
				Central Atlantic
-	W	50,737	59,242	.....Delaware
-	W	60,144	76,762	.Maryland/D.C.
W	93,158	388,706	434,366	....New Jersey
W	W	206,088	203,393	.....New York
W	W	611,047	481,337	..Pennsylvania
				Lower Atlantic
W	156,015	632,327	592,994	.....Florida
W	W	274,628	307,610	.....Georgia
W	-	306,674	316,932	North Carolina
W	W	122,512	134,140	South Carolina
W	-	142,286	165,158	.....Virginia
W	W	49,943	48,933	.West Virginia
233,520	301,648	3,164,895	3,103,510	.....Total
				PAD Dist. II
171,483	20,426	2,028,982	1,742,523	.....Illinois
W	92,442	455,871	332,218	.....Indiana
W	W	369,236	359,599	.....Iowa
551,079	618,280	1,598,115	2,085,279	.....Kansas
23,936	21,752	359,104	354,477	.....Kentucky
46,975	33,759	754,503	669,895	.....Michigan
W	W	279,086	326,663	.....Minnesota
W	W	248,673	242,349	.....Missouri
539	W	103,880	109,783	.....Nebraska
11,866	59,360	127,917	124,357	..North Dakota
W	W	662,962	1,265,691	.....Ohio
76,817	113,238	437,561	594,208	.....Oklahoma
-	-	65,801	52,110	..South Dakota
W	W	112,841	96,539	.....Tennessee
W	W	225,212	226,446	.....Wisconsin
1,008,882	1,044,919	7,829,744	8,582,137	.....Total
				PAD Dist. III
1,076	W	170,446	155,865	.....Alabama
W	727	165,287	157,415	.....Arkansas
469,979	418,237	4,111,310	4,354,450	.....Louisiana
W	W	173,287	208,751	...Mississippi
51,539	188,857	142,331	337,892	....New Mexico
2,100,427	2,448,698	14,031,101	14,595,157	.....Texas
2,623,530	3,060,219	18,793,762	19,809,530	.....Total
				PAD Dist. IV
24,380	38,944	120,767	144,963	.....Colorado
-	-	30,870	32,671	.....Idaho
W	57,280	79,350	196,860	.....Montana
212,822	99,882	328,791	207,648	.....Utah
111,366	187,646	276,860	341,250	.....Wyoming
362,586	383,752	836,638	923,392	.....Total
				PAD Dist. V
-	W	11,260	14,009	.....Alaska
W	W	78,526	86,922	.....Arizona
261,211	228,875	1,299,925	1,308,460	....California
-	-	5,286	5,595	.....Hawaii
-	-	38,933	43,855	.....Nevada
W	-	63,780	64,142	.....Oregon
-	-	184,617	252,034	....Washington
261,660	229,932	1,682,327	1,775,017	.....Total
4,490,178	5,020,470	32,307,366	34,193,586	.....U.S. Total

Table 2. Sales of Natural Gas Liquids and Liquefied Refinery Gases by Product Type, PAD District and State, 1985 and 1984 (Thousands of Gallons)

District & State	Ethane		Propane		Butane	
	1985	1984	1985[r]	1984[r]	1985	1984
PAD Dist. I						
New England						
Connecticut...	-	W	52,927	55,344	W	W
Maine.....	-	-	28,325	25,405	-	-
Massachusetts.	-	-	69,589	69,277	W	W
New Hampshire.	-	-	66,616	50,695	-	-
Rhode Island..	-	-	21,038	13,013	-	W
Vermont.....	-	-	33,201	27,115	-	-
Central Atlantic						
Delaware.....	-	W	41,100	50,165	W	W
Maryland/D.C..	-	-	75,669	99,565	W	W
New Jersey....	W	W	232,860	271,593	108,163	110,662
New York.....	-	-	206,680	211,232	W	W
Pennsylvania..	W	W	253,727	263,450	172,666	133,177
Lower Atlantic						
Florida.....	18,196	24,118	388,684	340,469	30,099	21,103
Georgia.....	-	-	285,346	253,748	W	W
North Carolina	-	-	314,839	283,721	W	W
South Carolina	-	-	132,711	105,265	750	W
Virginia.....	-	-	164,772	155,270	W	W
West Virginia.	-	W	48,092	14,975	W	W
Total.....	60,480	145,152	2,416,176	2,290,302	325,206	278,628
PAD Dist. II						
Illinois.....	550,683	516,221	464,635	557,606	706,779	488,836
Indiana.....	-	-	202,679	223,118	37,097	82,917
Iowa.....	W	-	354,247	306,152	W	W
Kansas.....	297,226	374,042	585,663	555,340	584,110	641,961
Kentucky.....	W	W	192,615	182,002	97,903	161,106
Michigan.....	W	W	446,300	315,031	161,784	51,337
Minnesota.....	-	-	219,963	207,719	W	41,748
Missouri.....	-	-	233,430	232,148	8,007	16,251
Nebraska.....	-	-	108,751	88,871	W	W
North Dakota..	-	-	17,075	19,053	47,922	51,344
Ohio.....	W	W	395,241	368,816	105,736	179,317
Oklahoma.....	20,415	88,722	210,934	183,284	249,621	241,101
South Dakota..	-	-	51,534	42,524	W	W
Tennessee.....	-	-	94,901	91,565	W	W
Wisconsin.....	-	-	225,378	232,093	W	W
Total.....	1,701,630	1,873,858	3,803,436	3,605,322	2,032,152	1,962,576
PAD Dist. III						
Alabama.....	-	-	153,084	140,901	313	W
Arkansas.....	-	-	154,091	132,796	2,597	4,664
Louisiana.....	1,677,244	1,525,662	730,454	896,069	1,528,515	1,293,380
Mississippi...	-	-	186,191	135,987	21,328	60,136
New Mexico....	-	87,274	122,299	118,684	26,736	47,444
Texas.....	5,340,069	5,360,030	4,783,949	4,386,221	2,022,441	2,338,854
Total.....	7,017,313	6,972,966	6,130,068	5,810,658	3,601,930	3,764,082
PAD Dist. IV						
Colorado.....	W	W	93,966	91,311	11,290	8,911
Idaho.....	-	-	32,671	28,263	-	-
Montana.....	-	-	55,549	42,340	W	82,500
Utah.....	-	W	51,963	50,553	55,803	33,114
Wyoming.....	W	156	59,053	65,447	93,627	67,066
Total.....	1,687	900	293,202	277,914	244,751	191,591
PAD Dist. V						
Alaska.....	-	-	W	W	-	-
Arizona.....	-	-	70,324	62,850	W	W
California....	W	78,872	655,185	629,742	372,742	343,098
Hawaii.....	-	-	W	W	-	-
Nevada.....	-	-	43,809	33,296	W	W
Oregon.....	-	-	63,821	54,578	W	W
Washington....	-	-	78,559	85,717	173,475	153,614
Total.....	51,658	78,872	931,182	882,672	562,245	503,971
U.S. Total.....	8,832,768	9,071,748	13,574,064	12,866,868	6,766,284	6,700,848

W Data withheld to avoid disclosure of individual company data.
r Revised, state totals only.
Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Pentanes Plus 1985	Pentanes Plus 1984	Total 1985[r]	Total 1984[r]	District & State
				PAD Dist. I
				New England
-	-	53,867	58,850	...Connecticut
-	-	28,325	25,405	.....Maine
W	W	74,596	72,267	.Massachusetts
-	-	66,616	50,695	.New Hampshire
-	-	21,038	13,169	..Rhode Island
-	-	33,201	27,115	.....Vermont
				Central Atlantic
W	W	59,242	55,276	.....Delaware
W	W	76,762	101,347	.Maryland/D.C.
93,158	W	434,366	411,547	....New Jersey
W	W	208,393	212,481	.....New York
W	W	481,337	903,284	..Pennsylvania
				Lower Atlantic
156,015	122,786	592,994	508,476	.....Florida
W	W	307,610	259,072	.....Georgia
-	W	316,932	285,458	North Carolina
W	W	134,140	105,822	South Carolina
-	-	165,158	156,627	.....Virginia
W	W	48,933	16,465	.West Virginia
301,648	449,274	3,103,510	3,163,356	.....Total
				PAD Dist. II
20,426	17,975	1,742,523	1,580,638	.....Illinois
92,442	83,592	332,218	389,627	.....Indiana
W	W	359,599	313,672	.....Iowa
618,280	367,120	2,085,279	1,938,463	.....Kansas
21,752	17,271	354,477	399,153	.....Kentucky
33,759	219,669	669,895	586,377	.....Michigan
W	W	326,663	310,566	.....Minnesota
W	W	242,349	249,474	.....Missouri
W	1,561	109,783	90,451	.....Nebraska
59,360	54,632	124,357	125,029	..North Dakota
W	W	1,265,691	1,406,143	.....Ohio
113,238	115,655	594,208	628,762	.....Oklahoma
-	-	52,110	42,790	..South Dakota
W	W	96,539	93,579	.....Tennessee
W	W	226,446	234,594	.....Wisconsin
1,044,919	947,562	8,582,137	8,389,318	.....Total
				PAD Dist. III
W	5,661	155,865	166,166	.....Alabama
727	1,220	157,415	138,680	.....Arkansas
418,237	746,984	4,354,450	4,462,095	.....Louisiana
W	2,320	208,751	198,443	...Mississippi
188,857	215,871	337,892	469,273	....New Mexico
2,448,698	2,203,858	14,595,157	14,288,963	.....Texas
3,060,219	3,175,914	19,809,530	19,723,620	.....Total
				PAD Dist. IV
38,944	48,150	144,963	149,043	.....Colorado
-	-	32,671	28,263	.....Idaho
57,280	66,923	196,860	191,763	.....Montana
99,882	94,252	207,648	177,992	.....Utah
187,646	164,013	341,250	296,682	.....Wyoming
383,752	373,338	923,392	843,743	.....Total
				PAD Dist. V
W	-	14,009	11,423	.....Alaska
W	W	86,922	70,702	.....Arizona
228,875	255,259	1,308,460	1,306,971	....California
-	-	5,595	5,066	.....Hawaii
-	W	43,855	33,332	.....Nevada
-	-	64,142	54,657	.....Oregon
-	W	252,034	240,908	....Washington
229,932	257,544	1,775,017	1,723,059	.....Total
5,020,470	5,203,632	34,193,586	33,843,096	.....U.S. Total

Table 3. Sales of Natural Gas Liquids and Liquefied Refinery Gases, by End Use, PAD District and State, 1989 and 1988 (Thousands of Gallons)

District & State	Residential & Commercial 1989[r]	Residential & Commercial 1988[r]	Internal Combustion Fuel 1989[r]	Internal Combustion Fuel 1988[r]	Chemical 1/ 1989[r]	Chemical 1/ 1988[r]	Industrial 2/ 1989[r]	Industrial 2/ 1988[r]
PAD Dist. I								
New England								
Connecticut...	41,526	36,605	3,104	2,916	W	W	14,612	16,185
Maine.....	45,497	44,713	2,987	2,852	W	W	14,601	14,646
Massachusetts.	78,394	65,995	6,069	5,914	-	W	11,297	11,617
New Hampshire.	79,730	66,952	1,360	1,387	-	-	9,884	8,750
Rhode Island..	13,455	13,029	1,835	1,978	-	-	4,450	5,145
Vermont.....	57,334	44,791	1,076	1,054	-	-	3,400	1,459
Central Atlantic								
Delaware.....	27,003	26,939	679	584	W	W	2,988	6,574
Maryland/D.C..	54,458	44,382	5,676	5,490	-	-	17,117	15,208
New Jersey....	64,403	66,755	8,126	8,444	167,452	209,396	17,085	20,346
New York.....	194,258	183,723	15,077	11,702	698	W	16,386	15,511
Pennsylvaniz..	124,795	116,622	16,762	16,938	W	W	112,416	74,247
Lower Atlantic								
Florida.....	239,311	240,627	20,916	20,955	W	W	31,732	33,235
Georgia.....	202,263	184,000	11,514	13,095	W	W	38,252	32,099
North Carolina	238,315	177,435	15,047	14,237	1,052	376	37,072	45,202
South Carolina	103,203	97,364	8,735	8,262	W	317	20,551	23,294
Virginia.....	102,924	88,213	9,074	9,417	1,118	W	28,292	32,112
West Virginia.	19,586	16,556	1,926	2,139	37,256	27,037	3,082	3,283
Total.....	1,686,455	1,514,781	129,963	127,364	213,975	243,831	383,217	358,913
PAD Dist. II								
Illinois.....	173,215	150,634	26,189	32,294	71,842	1,406,045	49,107	45,908
Indiana.....	201,762	167,329	14,877	14,330	W	751	26,708	12,590
Iowa.....	166,630	151,818	5,024	4,418	W	W	15,547	11,961
Kansas.....	71,771	70,896	18,137	13,493	345,628	413,784	50,926	33,993
Kentucky.....	109,846	106,034	7,136	7,017	W	W	148,855	180,195
Michigan.....	353,345	320,936	27,903	33,156	W	W	106,808	73,384
Minnesota.....	154,359	140,505	6,048	7,139	W	W	38,166	32,665
Missouri.....	246,518	191,046	11,406	9,887	585	731	36,437	31,629
Nebraska.....	59,791	59,043	6,437	4,927	W	W	12,815	8,862
North Dakota..	41,411	37,119	1,732	1,546	W	W	5,571	8,513
Ohio.....	223,309	196,883	36,720	33,495	W	W	235,826	174,515
Oklahoma.....	74,543	65,389	8,366	9,821	83,806	57,952	61,142	44,136
South Dakota..	70,154	46,675	1,970	1,848	-	-	6,920	2,457
Tennessee.....	97,812	86,571	15,261	14,088	W	W	22,704	19,447
Wisconsin.....	219,643	172,328	11,952	13,011	W	W	20,008	21,266
Total.....	2,264,109	1,963,206	199,158	200,470	563,887	1,931,734	837,540	701,521
PAD Dist. III								
Alabama.....	150,036	137,045	8,713	8,688	W	W	14,957	15,064
Arkansas.....	100,911	92,765	6,957	7,128	W	W	4,938	5,331
Louisiana.....	44,647	47,579	7,003	7,826	1,689,247	1,750,223	252,825	315,718
Mississippi...	112,215	102,803	10,976	12,944	27,529	W	38,892	21,422
New Mexico....	60,422	44,610	10,824	6,977	W	W	5,012	5,568
Texas.....	322,839	306,732	44,375	44,555	11,898,694	11,899,991	84,659	224,099
Total.....	791,070	731,534	88,848	88,118	13,807,886	13,654,475	401,283	587,202
PAD Dist. IV								
Colorado.....	78,882	69,317	5,812	5,191	W	-	29,444	25,902
Idaho.....	19,735	16,093	4,025	3,910	-	-	5,674	7,344
Montana.....	41,037	35,311	5,242	4,660	-	W	13,716	10,020
Utah.....	23,067	31,330	5,502	6,250	W	W	8,759	9,466
Wyoming.....	29,209	43,637	3,476	4,944	W	W	55,773	21,922
Total.....	191,930	195,688	24,057	24,955	57,702	9,346	113,366	74,654
PAD Dist. V								
Alaska.....	9,780	8,276	714	795	-	-	759	W
Arizona.....	40,671	42,327	6,231	6,230	W	W	12,257	13,796
California....	309,575	286,545	87,034	86,705	11,282	72,761	502,052	356,734
Hawaii.....	W	W	W	W	-	-	-	-
Nevada.....	42,107	30,761	1,943	2,094	W	W	10,630	9,544
Oregon.....	17,724	15,611	18,226	19,350	-	-	19,018	22,357
Washington....	30,023	26,265	24,413	26,600	W	-	72,118	35,421
Total.....	456,761	416,406	139,462	142,603	23,145	72,838	616,834	439,955
U.S. Total.....	5,390,325	4,821,615	581,488	583,510	14,666,595	15,912,224	2,352,240	2,162,245

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and pentanes plus consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use as synthetic natural gas feedstock, and use in secondary recovery of petroleum.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1989[r]	Gas Utility 1988[r]	Farm 1989[r]	Farm 1988[r]	Other 3/ 1989[r]	Other 3/ 1988[r]	Total 1989[r]	Total 1988[r]	District & State
								PAD Dist. I
								New England
W	W	2,617	2,338	W	2,324	66,551	63,737	...Connecticut
W	3,597	217	195	W	W	65,939	67,555	.....Maine
10,065	13,978	715	601	1,296	1,586	107,836	99,741	.Massachusetts
W	W	54	26	11,204	W	103,733	87,541	.New Hampshire
W	W	W	129	W	W	21,006	23,706	..Rhode Island
W	-	225	118	W	W	63,167	48,573	.....Vermont
								Central Atlantic
-	-	7,182	7,242	W	W	39,892	41,925	.....Delaware
-	-	9,949	5,750	2,709	557	89,909	71,387	.Maryland/D.C.
906	W	848	799	5,411	5,474	264,231	311,594	....New Jersey
W	W	5,340	6,313	2,316	1,608	234,261	220,056	.....New York
W	1,697	24,018	21,455	8,090	8,079	290,068	240,813	..Pennsylvania
								Lower Atlantic
20,070	W	16,995	18,180	8,239	5,665	337,805	336,902	.....Florida
297	W	54,403	48,378	4,266	4,769	311,645	283,414	.....Georgia
W	954	94,214	88,479	5,536	3,779	391,894	330,462	North Carolina
222	W	20,185	17,348	1,485	1,981	154,633	148,595	South Carolina
W	W	32,040	28,039	14,770	20,562	188,243	178,576	.....Virginia
-	W	2,961	2,736	W	W	64,830	51,820	.West Virginia
39,612	45,366	272,006	248,126	70,415	68,016	2,795,643	2,606,397	.....Total
								PAD Dist. II
121,783	130,243	71,908	67,908	7,524	10,632	521,568	1,843,664	.....Illinois
W	W	69,071	56,039	8,181	8,944	342,094	273,493	.....Indiana
W	-	108,997	101,386	3,765	6,571	303,871	279,187	.....Iowa
92,285	W	42,585	33,912	295,059	289,860	916,391	908,782	.....Kansas
W	W	16,727	13,244	2,042	1,092	287,415	310,742	.....Kentucky
W	W	31,183	26,446	241,591	255,163	810,844	752,384	.....Michigan
W	W	50,615	49,519	1,946	3,443	255,681	233,755	.....Minnesota
W	W	27,905	38,668	5,475	3,846	348,923	276,057	.....Missouri
W	-	72,523	73,543	250	223	152,281	146,980	.....Nebraska
W	W	23,579	14,191	802	1,027	73,531	63,528	..North Dakota
W	W	43,008	37,207	6,946	9,866	547,459	453,359	.....Ohio
W	W	13,327	22,778	4,191	6,739	245,380	206,818	.....Oklahoma
-	-	71,810	12,747	1,299	2,578	152,153	66,305	..South Dakota
W	W	5,312	5,111	4,698	5,002	146,347	130,786	.....Tennessee
-	W	30,699	34,097	8,658	12,456	291,014	253,231	.....Wisconsin
258,582	1[illegible],902	679,249	586,796	592,427	617,442	5,394,952	6,199,071	.....Total
								PAD Dist. III
W	382	25,906	21,856	1,373	2,134	201,858	185,604	.....Alabama
W	W	36,588	39,551	4,065	4,340	160,554	150,000	.....Arkansas
-	W	8,353	8,101	84,174	167,341	2,086,249	2,326,714	.....Louisiana
-	-	16,576	16,291	989	1,157	207,177	157,139	...Mississippi
W	-	5,285	2,463	12,972	1,038	280,027	61,104	....New Mexico
W	14,224	49,115	65,152	944,806	132,622	13,344,623	12,687,375	.....Texas
1,199	44,561	141,823	153,414	1,048,379	308,632	16,280,488	15,567,936	.....Total
								PAD Dist. IV
-	-	7,478	10,764	1,926	1,635	156,693	112,809	.....Colorado
-	-	2,825	2,674	2,959	1,369	35,218	31,390	.....Idaho
-	-	2,853	1,579	4,671	2,652	67,519	54,317	.....Montana
-	W	1,565	2,247	W	W	56,729	52,592	.....Utah
-	W	2,380	3,543	2,631	3,002	102,744	85,698	.....Wyoming
-	430	17,101	20,807	14,747	10,926	418,903	336,806	.....Total
								PAD Dist. V
-	-	W	W	W	W	11,665	11,629	.....Alaska
W	W	4,128	3,695	2,432	2,482	67,544	70,347	.....Arizona
1,213	35,141	44,006	37,215	41,848	33,741	997,010	908,842	....California
-	-	W	W	W	W	7,817	7,481	.....Hawaii
-	-	1,819	1,669	5,749	W	74,061	46,175	.....Nevada
W	-	7,379	5,760	5,338	3,321	67,717	66,399	.....Oregon
-	-	5,389	6,122	4,906	4,829	136,871	99,237	....Washington
3,042	36,926	62,763	54,545	60,678	46,837	1,362,685	1,210,110	.....Total
302,435	325,185	1,172,942	1,063,688	1,786,646	1,051,853	26,252,671	25,920,320	.....U.S. Total

Table 3. Sales of Natural Gas Liquids and Liquefied Refinery Gases, by End Use, PAD District and State, 1988 and 1987 (Thousands of Gallons)

District & State	Residential & Commercial 1988[r]	Residential & Commercial 1987[r]	Internal Combustion Fuel 1988[r]	Internal Combustion Fuel 1987[r]	Chemical 1/ 1988[r]	Chemical 1/ 1987[r]	Industrial 2/ 1988[r]	Industrial 2/ 1987[r]
PAD Dist. I								
New England								
Connecticut	36,685	39,262	2,916	2,395	W	W	16,185	17,269
Maine	44,713	39,774	2,852	1,733	W	W	14,646	10,348
Massachusetts	65,995	67,171	5,914	5,731	W	W	11,617	14,512
New Hampshire	66,952	60,580	1,387	2,087	-	-	8,750	9,498
Rhode Island	13,029	15,009	1,978	932	-	-	5,145	7,085
Vermont	44,791	37,765	1,054	1,193	-	-	1,459	5,879
Central Atlantic								
Delaware	26,939	24,287	584	345	W	W	6,574	5,239
Maryland/D.C.	44,382	46,933	5,490	3,616	-	-	15,208	14,116
New Jersey	66,755	54,769	8,444	9,033	209,396	211,492	20,346	25,231
New York	183,723	189,429	11,702	9,725	W	W	15,511	18,706
Pennsylvania	116,622	110,928	16,938	17,016	W	W	74,247	152,265
Lower Atlantic								
Florida	240,627	270,819	20,955	21,861	W	W	33,235	27,245
Georgia	184,000	182,867	13,095	14,608	W	W	32,099	19,914
North Carolina	177,435	191,577	14,237	14,005	376	956	45,202	45,452
South Carolina	97,364	97,273	8,262	7,855	317	740	23,294	25,889
Virginia	88,213	92,378	9,417	9,195	W	353	32,112	31,519
West Virginia	16,556	13,343	2,139	1,610	27,037	32,028	3,283	1,180
Total	1,514,781	1,534,164	127,364	122,940	243,831	257,483	358,913	431,347
PAD Dist. II								
Illinois	150,634	162,009	32,294	34,680	1,406,045	1,308,212	45,908	44,439
Indiana	167,329	146,901	14,330	14,626	751	W	12,590	12,721
Iowa	151,818	124,664	4,418	5,339	W	W	11,961	6,248
Kansas	70,896	63,503	13,493	12,469	413,784	280,509	33,993	97,648
Kentucky	106,034	116,527	7,017	7,963	W	W	180,195	152,444
Michigan	320,936	306,782	33,156	38,059	W	46,989	73,384	68,732
Minnesota	140,505	133,602	7,139	8,052	W	W	32,665	17,309
Missouri	191,046	202,468	9,887	14,830	731	W	31,629	14,849
Nebraska	59,043	60,342	4,927	5,610	W	W	8,862	5,205
North Dakota	37,119	31,490	1,546	1,550	W	W	8,513	5,637
Ohio	196,883	200,494	33,495	39,292	W	W	174,515	261,209
Oklahoma	65,389	67,304	9,821	10,387	57,952	65,319	44,136	45,159
South Dakota	46,675	64,208	1,848	5,138	-	-	2,457	6,103
Tennessee	86,571	69,443	14,088	13,399	W	508	19,447	11,821
Wisconsin	172,328	167,606	13,011	14,044	W	W	21,266	15,801
Total	1,963,206	1,917,343	200,470	225,438	1,931,734	1,826,261	701,521	765,325
PAD Dist. III								
Alabama	137,045	140,047	8,688	11,247	W	W	15,064	14,861
Arkansas	92,765	94,792	7,128	8,448	W	W	5,331	4,520
Louisiana	47,579	50,002	7,826	10,204	1,750,223	1,786,758	315,718	192,959
Mississippi	102,803	99,122	12,944	17,718	W	W	21,422	14,740
New Mexico	44,610	50,252	6,977	8,056	W	W	5,568	3,108
Texas	306,732	348,162	44,555	50,618	11,899,991	10,404,704	224,099	355,758
Total	731,534	782,377	88,118	106,291	13,654,475	12,193,093	587,202	585,946
PAD Dist. IV								
Colorado	69,317	72,651	5,191	4,398	-	-	25,902	11,632
Idaho	16,093	12,397	3,910	3,930	-	-	7,344	6,188
Montana	35,311	35,022	4,660	4,317	W	W	10,020	9,098
Utah	31,330	32,018	6,250	6,544	W	W	9,466	7,777
Wyoming	43,637	65,429	4,944	5,608	W	W	21,922	13,461
Total	195,688	217,517	24,955	24,797	9,346	18,481	74,654	48,156
PAD Dist. V								
Alaska	8,276	7,782	795	722	-	-	W	W
Arizona	42,327	54,437	6,230	6,774	W	W	13,796	8,950
California	286,545	259,516	86,705	93,966	72,761	86,400	356,734	302,198
Hawaii	W	W	W	W	-	-	-	-
Nevada	30,761	25,858	2,094	1,978	W	W	9,544	9,673
Oregon	15,611	20,719	19,350	19,595	-	-	22,357	16,042
Washington	26,265	32,911	26,600	27,546	-	-	35,421	35,865
Total	416,406	407,125	142,603	151,219	72,838	86,470	439,955	374,576
U.S. Total	4,821,615	4,858,526	583,510	630,685	15,912,224	14,381,788	2,162,245	2,205,350

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and pentanes plus consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use as synthetic natural gas feedstock, and use in secondary recovery of petroleum.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1988[r]	Gas Utility 1987[r]	Farm 1988[r]	Farm 1987[r]	Other 3/ 1988[r]	Other 3/ 1987[r]	Total 1988[r]	Total 1987[r]	District & State
								PAD Dist. I
								New England
W	W	2,338	2,281	2,324	3,303	63,737	65,418	...Connecticut
3,597	W	195	186	W	389	67,555	54,722	.....Maine
13,978	20,756	601	731	1,586	1,735	99,741	110,720	.Massachusetts
W	2,828	26	2,355	W	W	87,541	86,351	.New Hampshire
W	W	129	100	W	W	23,706	28,079	..Rhode Island
-	-	118	362	W	W	48,573	46,237	.....Vermont
								Central Atlantic
-	-	7,242	2,923	W	W	41,925	38,575	.....Delaware
-	W	5,750	3,746	557	4,074	71,387	73,304	.Maryland/D.C.
W	W	799	2,088	5,474	2,666	311,594	306,121	....New Jersey
W	W	6,313	7,038	1,608	3,162	220,056	229,972	.....New York
1,697	W	21,455	17,238	8,079	15,342	240,813	315,318	..Pennsylvania
								Lower Atlantic
W	19,844	18,180	16,577	5,665	8,962	336,902	369,396	.....Florida
W	308	48,378	44,146	4,769	3,867	283,414	266,969	.....Georgia
954	W	88,479	97,955	3,779	19,368	330,462	369,488	North Carolina
W	2,604	17,348	16,126	1,981	1,666	148,595	152,153	South Carolina
W	W	28,039	25,792	20,562	14,164	178,576	173,491	.....Virginia
W	W	2,736	2,391	W	W	51,820	50,634	.West Virginia
45,366	53,248	248,126	242,035	68,016	95,731	2,606,397	2,736,948	.....Total
								PAD Dist. II
130,243	24,812	67,908	76,459	10,632	17,865	1,843,664	1,668,476	.....Illinois
W	W	56,039	50,549	8,944	8,089	273,493	250,272	.....Indiana
-	W	101,386	112,638	6,571	5,357	279,187	257,050	.....Iowa
W	W	33,912	28,961	289,860	218,981	908,782	702,075	.....Kansas
W	W	13,244	12,178	1,092	1,052	310,742	300,916	.....Kentucky
W	898	26,446	32,870	255,163	259,914	752,384	754,244	.....Michigan
W	W	49,519	61,670	3,443	4,445	233,755	225,172	.....Minnesota
W	W	38,668	26,470	3,846	2,468	276,057	261,970	.....Missouri
-	-	73,543	63,708	223	84	146,980	135,238	.....Nebraska
W	W	14,191	18,969	1,027	9,408	63,528	67,218	..North Dakota
W	936	37,207	41,132	9,866	7,967	453,359	660,685	.....Ohio
W	W	22,778	23,118	6,739	4,181	206,818	215,692	.....Oklahoma
-	W	12,747	22,501	2,578	1,034	66,305	99,019	..South Dakota
W	W	5,111	11,122	5,002	3,529	130,786	109,963	.....Tennessee
W	W	34,097	28,897	12,456	10,188	253,231	236,605	.....Wisconsin
197,902	44,424	586,796	611,242	617,442	554,562	6,199,071	5,944,595	.....Total
								PAD Dist. III
382	W	21,856	26,216	2,134	1,745	185,604	194,320	.....Alabama
W	W	39,551	35,392	4,340	3,742	150,000	147,621	.....Arkansas
W	-	8,101	9,810	167,341	80,545	2,326,714	2,130,278	.....Louisiana
-	-	16,291	16,317	1,157	1,141	157,139	149,364	...Mississippi
-	-	2,463	1,997	1,038	1,377	61,104	65,202	....New Mexico
14,224	W	65,152	61,465	132,622	212,589	12,687,375	11,448,997	.....Texas
44,561	15,739	153,414	151,197	308,632	301,139	15,567,936	14,135,782	.....Total
								PAD Dist. IV
-	-	10,764	5,626	1,635	1,346	112,809	95,653	.....Colorado
-	-	2,674	2,695	1,369	884	31,390	26,094	.....Idaho
-	-	1,579	2,854	2,652	W	54,317	52,573	.....Montana
W	W	2,247	2,740	W	2,400	52,592	52,597	.....Utah
W	W	3,543	6,193	3,002	711	85,698	109,060	.....Wyoming
430	427	20,807	20,108	10,926	6,491	336,806	335,977	.....Total
								PAD Dist. V
-	-	W	W	W	W	11,629	11,373	.....Alaska
W	-	3,695	3,985	2,482	3,772	70,347	77,978	.....Arizona
35,141	29,250	37,215	35,784	33,741	29,732	908,842	836,846	....California
-	-	W	W	W	-	7,481	6,595	.....Hawaii
-	-	1,669	414	W	1,482	46,175	39,415	.....Nevada
-	-	5,760	5,171	3,321	1,038	66,399	62,565	.....Oregon
-	-	6,122	5,606	4,829	641	99,237	102,569	....Washington
36,926	29,250	54,545	51,519	46,837	37,182	1,210,110	1,137,341	.....Total
325,185	143,088	1,063,688	1,076,101	1,051,853	995,105	25,920,320	24,290,643	.....U.S. Total

Table 3. Sales of Natural Gas Liquids and Liquefied Refinery Gases, by End Use, PAD District and State, 1987 and 1986 (Thousands of Gallons)

District & State	Residential & Commercial 1987r	Residential & Commercial 1986r	Internal Combustion Fuel 1987r	Internal Combustion Fuel 1986r	Chemical 1/ 1987r	Chemical 1/ 1986r	Industrial 2/ 1987r	Industrial 2/ 1986r
PAD Dist. I								
New England								
Connecticut...	39,262	27,769	2,395	2,040	W	W	17,269	13,222
Maine.....	39,774	25,190	1,733	2,112	W	W	10,348	11,897
Massachusetts.	67,171	56,172	5,731	5,702	W	W	14,512	10,858
New Hampshire.	60,580	51,062	2,087	1,500	-	-	9,498	10,914
Rhode Island..	15,009	12,649	932	1,687	-	W	7,085	3,962
Vermont.....	37,765	30,017	1,193	942	-	-	5,879	4,512
Central Atlantic								
Delaware.....	24,287	20,403	345	4,104	W	W	5,239	W
Maryland/D.C..	46,933	37,510	3,616	3,270	-	-	14,116	12,542
New Jersey....	54,769	50,654	9,033	9,394	211,492	158,444	25,231	30,424
New York.....	189,429	162,157	9,727	9,920	W	W	18,706	23,549
Pennsylvania..	110,928	97,749	17,016	17,632	W	W	152,265	147,442
Lower Atlantic								
Florida.....	270,819	317,107	21,861	40,284	W	24,942	27,245	28,775
Georgia.....	182,867	175,370	14,608	17,308	W	W	19,914	21,482
North Carolina	191,577	157,128	14,005	15,622	956	951	45,452	42,015
South Carolina	97,273	82,921	7,855	6,959	740	1,163	25,889	16,708
Virginia.....	92,378	75,653	9,195	5,195	353	970	31,519	36,509
West Virginia.	13,343	11,274	1,610	1,800	32,028	W	1,180	2,148
Total.....	1,534,164	1,390,785	122,940	145,471	257,483	252,339	431,347	420,761
PAD Dist. II								
Illinois.....	162,009	149,588	34,680	34,741	1,308,212	485,722	44,439	43,572
Indiana.....	146,901	128,581	14,626	13,444	W	W	12,721	31,376
Iowa.....	124,664	161,441	5,339	12,981	W	W	6,248	15,192
Kansas.....	63,503	59,697	12,469	9,289	280,509	453,065	97,648	107,262
Kentucky.....	116,527	81,456	7,963	7,426	W	W	152,444	129,019
Michigan.....	306,782	248,964	38,059	26,027	46,989	W	68,732	54,238
Minnesota.....	133,602	138,133	8,052	11,588	W	W	17,309	33,576
Missouri.....	202,468	193,032	14,830	14,442	W	W	14,849	18,721
Nebraska.....	60,342	43,932	5,610	3,488	W	W	5,205	6,221
North Dakota..	31,490	30,803	1,550	2,099	W	-	5,637	3,376
Ohio.....	200,494	170,150	39,292	37,840	W	95,147	261,209	252,696
Oklahoma.....	67,304	72,994	10,387	9,687	65,319	87,465	45,159	38,055
South Dakota..	64,208	41,574	5,138	2,310	-	-	6,103	1,879
Tennessee.....	69,443	70,417	13,399	18,494	508	W	11,821	18,335
Wisconsin.....	167,606	151,087	14,044	12,739	W	W	15,801	21,833
Total.....	1,917,343	1,741,849	225,438	216,595	1,826,261	1,141,731	765,325	775,351
PAD Dist. III								
Alabama.....	140,047	118,037	11,247	13,451	W	640	14,861	15,777
Arkansas.....	94,792	113,604	8,448	8,442	W	W	4,520	5,177
Louisiana.....	50,002	52,368	10,204	8,667	1,786,758	1,942,664	192,959	180,488
Mississippi....	99,122	83,804	17,718	17,682	W	W	14,740	17,449
New Mexico....	50,252	49,434	8,056	8,492	W	W	3,108	4,240
Texas.....	348,162	326,646	50,618	70,386	10,404,704	9,396,411	355,758	330,744
Total.....	782,377	743,893	106,291	127,120	12,193,093	11,352,151	585,946	553,875
PAD Dist. IV								
Colorado.....	72,651	66,960	4,398	5,441	-	-	11,632	12,577
Idaho.....	12,397	14,232	3,930	5,990	-	-	6,188	7,704
Montana.....	35,022	31,668	4,317	5,078	W	W	9,098	16,034
Utah.....	32,018	30,844	6,544	7,200	W	W	7,777	6,666
Wyoming.....	65,429	38,534	5,608	4,840	W	W	13,461	19,421
Total.....	217,517	182,238	24,797	28,549	18,481	17,063	48,156	62,402
PAD Dist. V								
Alaska.....	7,782	W	722	W	-	-	W	W
Arizona.....	54,437	45,295	6,774	7,828	W	W	8,950	11,047
California....	259,516	203,335	93,966	85,786	86,400	106,326	302,198	291,967
Hawaii.....	W	W	W	W	-	-	-	-
Nevada.....	25,858	27,008	1,978	2,046	W	-	9,673	7,286
Oregon.....	20,719	21,470	19,595	14,335	-	-	16,042	22,542
Washington....	32,911	21,125	27,546	26,128	-	-	35,865	27,895
Total.....	407,125	330,429	151,219	137,407	86,470	106,597	374,576	362,818
U.S. Total.....	4,858,526	4,389,194	630,685	655,142	14,381,788	12,869,881	2,205,350	2,175,207

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and pentanes plus consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use as synthetic natural gas feedstock, and use in secondary recovery of petroleum.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1987[r]	Gas Utility 1986[r]	Farm 1987[r]	Farm 1986[r]	Other 3/ 1987[r]	Other 3/ 1986[r]	Total 1987[r]	Total 1986[r]	District & State
								PAD Dist. I
								New England
W	W	2,281	689	3,303	2,556	65,418	47,683	...Connecticut
W	W	186	1,018	389	W	54,022	43,612	.....Maine
20,756	W	731	251	1,735	4,728	110,720	96,959	.Massachusetts
2,828	726	2,355	69	W	6,273	86,351	70,544	.New Hampshire
W	W	100	35	W	6,044	28,079	24,573	..Rhode Island
-	W	362	127	W	W	46,237	36,432	.....Vermont
								Central Atlantic
-	-	2,923	1,772	W	2,060	38,575	32,865	.....Delaware
W	W	3,746	3,125	4,074	2,946	73,304	60,144	.Maryland/D.C.
W	W	2,088	1,977	2,666	4,893	306,121	256,925	....New Jersey
W	W	7,038	6,959	3,162	1,008	229,972	206,088	.....New York
W	W	17,238	17,932	15,342	2,454	315,318	298,940	..Pennsylvania
								Lower Atlantic
19,844	13,306	16,577	16,396	8,962	4,512	369,396	445,322	.....Florida
308	W	44,146	45,608	3,867	5,732	266,969	274,628	.....Georgia
W	W	97,955	81,787	19,368	8,911	369,488	306,674	North Carolina
2,604	375	16,126	12,638	1,666	1,748	152,153	122,512	South Carolina
W	W	25,792	17,503	14,164	5,620	173,491	142,286	.....Virginia
W	W	2,391	644	W	163	50,634	49,943	.West Virginia
53,248	37,026	242,035	208,530	95,731	61,218	2,736,948	2,516,130	.....Total
								PAD Dist. II
24,812	372,688	76,459	152,903	17,865	13,855	1,668,476	1,253,069	.....Illinois
W	W	50,549	50,889	8,089	2,678	250,272	235,942	.....Indiana
W	-	112,638	175,957	5,357	761	257,050	369,236	.....Iowa
W	W	28,961	19,797	218,981	1,238	702,075	650,363	.....Kansas
W	287	12,178	3,993	1,052	263	300,916	237,483	.....Kentucky
898	65,831	32,870	30,206	259,914	265,880	754,244	691,197	.....Michigan
W	36	61,670	71,617	4,445	4,811	225,172	259,861	.....Minnesota
W	W	26,470	20,049	2,468	1,537	261,970	248,308	.....Missouri
-	-	63,708	48,531	84	662	135,238	102,969	.....Nebraska
W	W	18,969	17,073	9,408	5,927	67,218	59,310	..North Dakota
936	W	41,132	41,653	7,967	4,737	660,685	602,897	.....Ohio
W	W	23,118	19,451	4,181	7,165	215,692	234,819	.....Oklahoma
W	W	22,501	19,278	1,034	734	99,019	65,801	..South Dakota
W	W	11,122	2,553	3,529	2,098	109,963	112,841	.....Tennessee
W	W	28,897	36,663	10,188	2,396	236,605	225,212	.....Wisconsin
44,424	448,427	611,242	710,613	554,562	314,742	5,944,595	5,349,308	.....Total
								PAD Dist. III
W	-	26,216	20,914	1,745	329	194,320	169,148	.....Alabama
W	-	35,392	31,464	3,742	820	147,621	159,990	.....Arkansas
-	W	9,810	6,095	80,545	79,166	2,130,278	2,388,981	.....Louisiana
-	W	16,317	14,468	1,141	1,384	149,364	148,719	...Mississippi
-	W	1,997	3,806	1,377	1,208	65,202	68,592	....New Mexico
W	52,557	61,465	69,729	212,589	278,161	11,448,997	10,524,634	.....Texas
15,739	175,481	151,197	146,476	301,139	361,068	14,135,782	13,460,064	.....Total
								PAD Dist. IV
-	-	5,626	2,272	1,346	836	95,653	88,086	.....Colorado
-	-	2,695	2,293	884	651	26,094	30,870	.....Idaho
-	-	2,854	9,161	W	W	52,573	63,325	.....Montana
W	W	2,740	1,780	2,400	W	52,597	51,972	.....Utah
W	W	6,193	2,036	711	4,478	109,060	82,299	.....Wyoming
427	230	20,108	17,542	6,491	8,528	335,977	316,552	.....Total
								PAD Dist. V
-	-	W	W	W	W	11,373	11,260	.....Alaska
-	-	3,985	3,633	3,772	W	77,978	69,176	.....Arizona
29,250	59,508	35,784	32,677	29,732	15,854	836,846	795,453	....California
-	-	W	W	-	-	6,595	5,286	.....Hawaii
-	-	414	1,351	1,482	1,110	39,415	38,801	.....Nevada
-	-	5,171	4,721	1,038	639	62,565	63,707	.....Oregon
-	-	5,606	6,369	641	541	102,569	82,048	....Washington
29,250	59,508	51,519	49,293	37,182	19,679	1,137,341	1,065,731	.....Total
143,088	720,672	1,076,101	1,132,454	995,105	765,235	24,290,643	22,707,785	.....U.S. Total

Table 3. Sales of Natural Gas Liquids and Liquefied Refinery Gases, by End Use, PAD District and State, 1986 and 1985 (Thousands of Gallons)

District & State	Residential & Commercial 1986r	Residential & Commercial 1985r	Internal Combustion Fuel 1986r	Internal Combustion Fuel 1985r	Chemical 1/ 1986r	Chemical 1/ 1985r	Industrial 2/ 1986r	Industrial 2/ 1985r
PAD Dist. I								
New England								
Connecticut	27,769	31,569	2,040	3,023	W	W	13,222	15,519
Maine	25,190	17,219	2,112	1,460	W	W	11,897	6,498
Massachusetts	56,172	50,469	5,702	6,643	W	W	10,858	8,018
New Hampshire	51,062	42,272	1,500	2,285	-	-	10,914	9,361
Rhode Island	12,649	13,786	1,687	2,122	W	-	3,962	3,076
Vermont	30,017	29,705	942	1,282	-	-	4,512	1,369
Central Atlantic								
Delaware	20,403	29,279	4,104	460	W	W	W	2,337
Maryland/D.C.	37,510	48,814	3,270	5,800	-	-	12,542	10,926
New Jersey	50,654	45,367	9,394	10,567	158,444	221,716	30,424	24,558
New York	162,157	159,459	9,920	14,030	W	W	23,549	23,335
Pennsylvania	97,749	113,576	17,632	23,728	W	61,639	147,442	85,138
Lower Atlantic								
Florida	317,107	296,198	40,284	37,253	24,942	25,639	28,775	25,165
Georgia	175,370	195,263	17,308	20,228	W	W	21,482	22,811
North Carolina	157,128	157,811	15,622	17,476	951	603	42,015	36,378
South Carolina	82,921	91,856	6,959	13,352	1,163	1,044	16,708	11,780
Virginia	75,653	89,182	5,195	9,742	970	W	36,509	33,765
West Virginia	11,274	11,105	1,800	2,094	W	32,837	2,148	1,947
Total	1,390,785	1,422,930	145,471	171,545	252,339	353,866	420,761	321,981
PAD Dist. II								
Illinois	149,588	173,816	34,741	40,335	485,722	297,726	43,572	48,228
Indiana	128,581	115,641	13,444	14,093	W	W	31,376	9,298
Iowa	161,441	148,029	12,981	8,573	W	W	15,192	15,218
Kansas	59,697	72,575	9,289	9,092	453,065	313,361	107,262	41,112
Kentucky	81,456	78,387	7,426	9,388	W	2,591	129,019	155,904
Michigan	248,964	218,762	26,027	27,753	W	W	54,238	48,545
Minnesota	138,133	118,588	11,588	11,737	W	-	33,576	23,889
Missouri	193,032	172,735	14,442	13,148	W	-	18,721	24,975
Nebraska	43,932	49,324	3,488	5,435	W	-	6,221	6,674
North Dakota	30,803	8,360	2,099	1,009	-	-	3,376	3,251
Ohio	170,150	164,982	37,840	36,136	95,147	W	252,696	268,066
Oklahoma	72,994	100,148	9,687	12,742	87,465	111,943	38,055	70,786
South Dakota	41,574	34,747	2,310	2,298	-	-	1,879	745
Tennessee	70,417	59,721	18,494	15,874	W	W	18,335	14,855
Wisconsin	151,087	150,448	12,739	17,537	W	-	21,833	21,414
Total	1,741,849	1,666,263	216,595	225,150	1,141,731	833,026	775,351	752,960
PAD Dist. III								
Alabama	118,037	103,166	13,451	15,324	640	W	15,777	6,372
Arkansas	113,604	102,913	8,442	14,030	W	W	5,177	6,016
Louisiana	52,368	48,854	8,667	10,433	1,942,664	2,220,836	180,488	258,359
Mississippi	83,804	94,604	17,682	22,186	W	-	17,449	56,249
New Mexico	49,434	103,325	8,492	9,064	W	W	4,240	5,003
Texas	326,646	358,846	70,386	58,121	9,396,411	10,058,902	330,744	256,531
Total	743,893	811,708	127,120	129,158	11,352,151	12,281,731	553,875	588,530
PAD Dist. IV								
Colorado	66,960	68,665	5,441	6,484	-	W	12,577	11,298
Idaho	14,232	16,194	5,990	5,676	-	-	7,704	7,254
Montana	31,668	29,852	5,078	4,855	W	-	16,034	9,484
Utah	30,844	31,167	7,200	7,224	W	W	6,666	7,632
Wyoming	38,534	24,527	4,840	4,325	W	W	19,421	29,509
Total	182,238	170,405	28,549	28,564	17,063	37,558	62,402	65,177
PAD Dist. V								
Alaska	W	W	W	W	-	-	W	W
Arizona	45,295	47,253	7,828	8,735	W	W	11,047	9,133
California	203,335	264,359	85,786	116,928	106,326	115,542	291,967	245,612
Hawaii	W	W	W	W	-	-	-	-
Nevada	27,008	32,137	2,046	2,974	-	-	7,286	4,945
Oregon	21,470	25,528	14,335	18,228	-	-	22,542	16,191
Washington	21,125	27,307	26,128	31,437	-	-	27,885	17,170
Total	330,429	411,033	137,407	180,196	106,597	115,544	362,818	295,096
U.S. Total	4,389,194	4,482,339	655,142	734,613	12,869,881	13,621,725	2,175,207	2,023,744

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and pentanes plus consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use as synthetic natural gas feedstock, and use in secondary recovery of petroleum.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1986[r]	Gas Utility 1985[r]	Farm 1986[r]	Farm 1985[r]	Other 3/ 1986[r]	Other 3/ 1985[r]	Total 1986[r]	Total 1985[r]	District & State
								PAD Dist. I
								New England
W	W	689	768	2,556	1,289	47,683	53,867	...Connecticut
W	W	1,018	18	W	W	43,612	28,325	.....Maine
W	3,336	251	360	4,728	3,347	96,959	74,596	.Massachusetts
726	11,574	69	90	6,273	W	70,544	66,616	.New Hampshire
W	-	35	W	6,044	2,050	24,573	21,038	..Rhode Island
W	W	127	178	W	W	36,432	33,201	.....Vermont
								Central Atlantic
-	W	1,772	6,855	2,060	W	32,865	41,100	.....Delaware
W	W	3,125	5,366	2,946	2,610	60,144	76,762	.Maryland/D.C.
W	W	1,977	2,186	4,893	4,036	256,925	309,813	....New Jersey
W	W	6,959	7,685	1,008	1,951	206,088	208,393	.....New York
W	W	17,932	15,713	2,454	5,433	298,940	305,510	..Pennsylvania
								Lower Atlantic
13,306	14,521	16,396	12,006	4,512	3,686	445,322	414,468	.....Florida
W	2,140	45,608	41,674	5,732	7,232	274,628	290,545	.....Georgia
W	W	81,787	98,497	8,911	5,462	306,674	316,932	North Carolina
375	1,119	12,638	13,270	1,748	1,027	122,512	133,448	South Carolina
W	5,369	17,503	19,970	5,620	6,246	142,286	165,158	.....Virginia
W	W	644	719	163	W	49,943	48,933	.West Virginia
37,026	45,154	208,530	225,359	61,218	47,870	2,516,130	2,588,705	.....Total
								PAD Dist. II
372,688	W	152,903	164,239	13,855	336,680	1,253,069	1,062,148	.....Illinois
W	7,722	50,889	51,708	2,678	5,079	235,942	203,922	.....Indiana
-	-	175,957	182,074	761	5,410	369,236	359,599	.....Iowa
W	-	19,797	18,208	1,238	571,223	650,363	1,025,571	.....Kansas
287	240	3,993	5,374	263	W	237,483	252,550	.....Kentucky
65,831	W	30,206	30,270	265,880	296,541	691,197	622,236	.....Michigan
36	W	71,617	64,830	4,811	2,688	259,861	221,768	.....Minnesota
W	W	20,049	15,827	1,537	2,085	248,308	234,741	.....Missouri
-	-	48,531	47,138	662	401	102,969	108,972	.....Nebraska
W	W	17,073	4,409	5,927	W	59,310	17,075	..North Dakota
W	W	41,653	41,273	4,737	543,532	602,897	1,161,895	.....Ohio
W	2,325	19,451	26,564	7,165	13,314	234,819	337,822	.....Oklahoma
W	W	19,278	13,601	734	W	65,801	52,110	..South Dakota
W	-	2,553	3,510	2,098	2,227	112,841	96,535	.....Tennessee
W	1,908	36,663	31,597	2,396	3,387	225,212	226,291	.....Wisconsin
448,427	21,391	710,613	700,622	314,742	1,783,823	5,349,308	5,983,235	.....Total
								PAD Dist. III
-	W	20,914	24,831	329	3,803	169,148	154,410	.....Alabama
-	-	31,464	30,297	820	1,081	159,990	154,495	.....Arkansas
W	W	6,095	6,262	79,166	243,330	2,388,981	2,893,615	.....Louisiana
W	-	14,468	17,121	1,384	5,805	148,719	196,045	...Mississippi
W	-	3,806	4,432	1,208	1,021	68,592	123,798	....New Mexico
52,557	3,566	69,729	66,003	278,161	232,783	10,524,634	11,034,752	.....Texas
175,481	109,139	146,476	148,946	361,068	487,903	13,460,064	14,557,115	.....Total
								PAD Dist. IV
-	W	2,272	4,296	836	10,771	88,086	104,758	.....Colorado
-	-	2,293	2,475	651	1,072	30,870	32,671	.....Idaho
-	-	9,161	10,165	W	1,193	63,325	55,549	.....Montana
W	W	1,780	1,763	W	2,219	51,972	55,750	. .....Utah
W	W	2,036	1,293	4,478	785	82,299	95,783	.. ..Wyoming
230	6,775	17,542	19,992	8,528	16,040	316,552	344,511	.....Total
								PAD Dist. V
-	-	W	W	W	W	11,260	14,009	.....Alaska
-	-	3,633	4,924	W	W	69,176	70,386	.....Arizona
59,508	58,359	32,677	44,018	15,854	12,876	795,453	857,694	....California
-	-	W	W	-	-	5,286	5,595	.....Hawaii
-	-	1,351	2,777	1,110	980	38,801	43,813	.....Nevada
-	-	4,721	3,700	639	W	63,707	64,142	.....Oregon
-	-	6,369	5,840	541	W	82,048	82,246	....Washington
59,508	58,359	49,293	61,851	19,679	15,806	1,065,731	1,137,885	.....Total
720,672	240,818	1,132,454	1,156,770	765,235	2,351,442	22,707,785	24,611,451	.....U.S. Total

Table 3. Sales of Natural Gas Liquids and Liquefied Refinery Gases, by End Use, PAD District and State, 1985 and 1984 (Thousands of Gallons)

District & State	Residential & Commercial 1985r	Residential & Commercial 1984r	Internal Combustion Fuel 1985r	Internal Combustion Fuel 1984r	Chemical 1/ 1985r	Chemical 1/ 1984r	Industrial 2/ 1985r	Industrial 2/ 1984r
PAD Dist. I								
New England								
Connecticut	31,569	27,389	3,023	2,830	W	3,638	15,519	16,658
Maine	17,219	11,431	1,460	1,395	W	W	6,498	7,215
Massachusetts	50,469	42,474	6,643	6,829	W	W	8,018	7,728
New Hampshire	42,272	36,861	2,285	1,689	-	-	9,361	8,353
Rhode Island	13,786	8,044	2,122	2,059	-	-	3,076	2,536
Vermont	29,705	24,770	1,282	1,116	-	-	1,369	1,065
Central Atlantic								
Delaware	29,279	26,487	460	446	W	1,013	2,337	14,664
Maryland/D.C.	48,814	51,512	5,800	5,631	-	W	10,926	34,528
New Jersey	45,367	45,587	10,567	12,900	221,716	246,351	24,558	50,562
New York	159,459	146,421	14,030	13,951	W	W	23,335	21,093
Pennsylvania	113,576	112,862	23,728	24,173	61,639	68,253	85,138	135,747
Lower Atlantic								
Florida	296,198	255,921	37,253	35,770	25,639	24,458	25,165	26,444
Georgia	195,263	178,014	20,228	21,211	W	W	22,811	20,822
North Carolina	157,811	156,281	17,476	13,806	603	688	36,378	28,318
South Carolina	91,856	77,874	13,352	9,240	1,044	922	11,780	9,001
Virginia	89,182	86,002	9,742	9,334	W	W	33,765	28,075
West Virginia	11,105	9,968	2,094	1,377	32,837	W	1,947	4,237
Total	1,422,930	1,297,898	171,545	163,765	353,866	355,843	321,981	417,046
PAD Dist. II								
Illinois	173,816	163,241	40,335	46,529	297,726	338,746	48,228	84,049
Indiana	115,641	135,536	14,093	14,543	W	W	9,298	8,905
Iowa	148,029	145,515	8,573	9,506	W	W	15,218	11,068
Kansas	72,575	49,862	9,092	6,833	313,361	241,302	41,112	93,098
Kentucky	78,387	66,577	9,388	19,393	2,591	2,220	155,904	146,412
Michigan	218,762	210,572	27,753	28,867	W	W	48,545	39,695
Minnesota	118,588	118,540	11,737	11,818	-	W	23,889	21,330
[illegible]souri	172,735	156,497	13,148	12,222	-	W	24,975	36,758
[illegible]raska	49,324	37,849	5,435	4,777	-	W	6,674	4,678
[illegible]th Dakota	8,360	6,353	1,009	1,325	-	-	3,251	1,760
Ohio	164,982	163,474	36,136	35,988	W	84,827	268,066	240,565
Oklahoma	100,148	80,284	12,742	8,897	111,943	97,516	70,786	68,255
South Dakota	34,747	29,837	2,298	1,835	-	-	745	1,192
Tennessee	59,721	57,297	15,874	15,868	W	W	14,855	14,108
Wisconsin	150,448	161,389	17,537	18,024	-	W	21,414	13,697
Total	1,666,263	1,590,823	225,150	236,425	833,026	773,604	752,960	785,570
PAD Dist. III								
Alabama	103,166	99,503	15,324	14,627	W	W	6,372	8,906
Arkansas	102,913	89,487	14,030	12,651	W	W	6,016	6,503
Louisiana	48,854	44,626	10,433	23,397	2,220,836	2,093,991	258,359	94,433
Mississippi	94,604	79,274	22,186	19,264	-	W	56,249	72,816
New Mexico	103,325	29,283	9,064	5,475	W	W	5,003	79,358
Texas	358,846	253,749	58,121	55,210	10,058,902	9,094,695	256,531	831,982
Total	811,708	595,922	129,158	130,624	12,281,731	11,219,244	588,530	1,093,998
PAD Dist. IV								
Colorado	68,665	63,870	6,484	6,851	W	W	11,298	11,267
Idaho	16,194	12,690	5,676	5,652	-	-	7,254	6,756
Montana	29,852	21,131	4,855	4,575	-	-	9,484	9,019
Utah	31,167	31,676	7,224	7,631	W	W	7,632	6,902
Wyoming	24,527	25,452	4,325	4,229	W	W	29,509	10,298
Total	170,405	154,819	28,564	28,938	37,558	28,232	65,177	52,242
PAD Dist. V								
Alaska	W	W	W	W	-	-	W	W
Arizona	47,253	35,973	8,735	8,651	W	W	9,133	12,770
California	264,359	218,068	116,928	114,300	115,542	163,305	245,612	256,052
Hawaii	W	W	W	W	-	-	-	-
Nevada	32,137	24,929	2,974	2,856	-	W	4,945	3,387
Oregon	25,528	21,810	18,228	19,193	-	-	16,191	10,215
Washington	27,307	23,776	31,437	32,102	-	W	17,170	24,181
Total	411,033	336,692	180,196	178,841	115,544	167,781	295,096	308,319
U.S. Total	4,482,339	3,976,154	734,613	738,593	13,621,725	12,544,704	2,023,744	2,657,175

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and pentanes plus consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use as synthetic natural gas feedstock, and use in secondary recovery of petroleum.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1985[r]	Gas Utility 1984[r]	Farm 1985[r]	Farm 1984[r]	Other 3/ 1985[r]	Other 3/ 1984[r]	Total 1985[r]	Total 1984[r]	District & State
								PAD Dist. I
								New England
W	W	768	642	1,289	7,119	53,867	58,850	...Connecticut
W	-	18	24	W	W	28,325	25,405	.....Maine
3,336	2,451	360	312	3,347	11,083	74,596	72,267	.Massachusetts
11,574	1,994	90	23	W	W	66,616	50,695	.New Hampshire
-	-	W	W	2,050	517	21,038	13,169	..Rhode Island
W	W	178	51	W	W	33,201	27,115	.....Vermont
								Central Atlantic
W	W	6,855	5,750	W	W	41,100	55,276	.....Delaware
W	W	5,366	4,971	2,610	2,735	76,762	101,347	.Maryland/D.C.
W	W	2,186	2,578	4,036	6,059	309,813	365,671	....New Jersey
W	W	7,685	6,938	1,951	21,887	208,393	212,340	.....New York
W	W	15,713	16,531	5,433	10,314	305,510	368,674	..Pennsylvania
								Lower Atlantic
14,521	11,846	12,006	11,113	3,686	W	414,468	366,050	.....Florida
2,140	W	41,674	32,035	7,232	3,073	290,545	259,072	.....Georgia
W	W	98,497	83,073	5,462	2,975	316,932	285,458	North Carolina
1,119	264	13,270	8,275	1,027	246	133,448	105,822	South Carolina
5,369	1,380	19,970	19,890	6,246	10,006	165,158	155,293	.....Virginia
W	W	719	659	W	W	48,933	16,465	.West Virginia
45,154	23,323	225,359	192,878	47,870	88,216	2,588,705	2,538,969	.....Total
								PAD Dist. II
W	W	164,239	144,444	336,680	298,736	1,062,148	1,094,895	.....Illinois
7,722	9,138	51,708	50,198	5,079	5,1[illegible]	203,922	224,020	.....Indiana
-	-	182,074	135,302	5,410	4,76[illegible]	359,599	308,097	.....Iowa
-	W	18,208	44,618	571,223	701,530	1,025,571	1,167,753	.....Kansas
240	W	5,374	7,353	W	283	252,550	242,831	.....Kentucky
W	W	30,270	24,415	296,541	3,901	622,236	315,978	.....Michigan
W	W	64,830	51,643	2,588	5,705	221,768	209,277	.....Minnesota
W	W	15,827	12,063	2,085	5,980	234,741	233,757	.....Missouri
-	-	47,138	37,003	401	3,380	108,972	88,946	.....Nebraska
W	W	4,409	7,443	W	W	17,075	20,025	..North Dakota
W	100	41,273	42,093	543,532	660,981	1,161,895	1,228,028	.....Ohio
2,325	W	26,564	18,296	13,314	24,004	337,822	299,787	.....Oklahoma
W	-	13,601	8,948	W	W	52,110	42,790	..South Dakota
-	W	3,510	3,452	2,227	2,159	96,535	93,575	.....Tennessee
1,908	W	31,597	29,201	3,387	7,017	226,291	232,661	.....Wisconsin
21,391	72,194	700,622	616,472	1,783,823	1,727,332	5,983,235	5,802,420	.....Total
								PAD Dist. III
W	-	24,831	17,089	3,803	W	154,410	142,028	.....Alabama
-	-	30,297	23,735	1,081	W	154,495	133,206	.....Arkansas
W	W	6,262	5,673	243,330	400,006	2,893,615	2,761,892	.....Louisiana
-	-	17,121	15,969	5,885	2,329	196,045	190,020	...Mississippi
-	W	4,432	1,339	1,021	129,348	123,798	273,688	....New Mexico
3,566	W	66,003	49,323	232,783	713,868	11,034,752	11,123,138	.....Texas
109,139	224,616	148,946	113,128	487,903	1,246,440	14,557,115	14,623,972	.....Total
								PAD Dist. IV
W	W	4,296	4,862	10,771	6,103	104,758	96,516	.....Colorado
-	-	2,475	2,343	1,072	W	32,671	28,263	.....Idaho
-	-	10,165	7,198	1,193	1,436	55,549	43,359	.....Montana
W	W	1,763	1,628	2,219	6,588	55,750	58,252	.....Utah
W	W	1,293	2,005	785	21,030	95,783	92,144	.....Wyoming
6,775	288	19,992	18,036	16,040	35,979	344,511	318,534	.....Total
								PAD Dist. V
-	-	W	W	W	W	14,009	11,423	.....Alaska
-	-	4,924	5,207	W	W	70,386	63,474	.....Arizona
58,359	63,150	44,018	39,951	12,876	13,188	857,694	868,014	....California
-	-	W	W	-	-	5,595	5,066	.....Hawaii
-	-	2,777	1,450	980	674	43,813	33,315	.....Nevada
-	-	3,700	2,849	W	W	64,142	54,649	.....Oregon
-	-	5,840	5,054	W	W	82,246	89,604	....Washington
58,359	63,150	61,851	55,006	15,806	15,756	1,137,885	1,125,545	.....Total
240,818	383,571	1,156,770	995,520	2,351,442	3,113,723	24,611,451	24,409,440	.....U.S. Total

Table 4. Sales of Propane, by Use, in the United States, by PAD District and State, 1989 and 1988 (Thousands of Gallons)

District & State	Residential & Commercial 1989[r]	Residential & Commercial 1988[r]	Internal Combustion Fuel 1989[r]	Internal Combustion Fuel 1988[r]	Chemical 1/ 1989[r]	Chemical 1/ 1988[r]	Industrial 2/ 1989[r]	Industrial 2/ 1988[r]
PAD Dist. I								
New England								
Connecticut...	41,526	36,685	3,104	2,916	W	W	14,612	16,185
Maine.....	45,497	44,713	2,987	2,852	W	W	14,601	14,646
Massachusetts.	78,394	65,995	6,069	5,914	-	-	11,297	11,617
New Hampshire.	79,730	66,952	1,360	1,387	-	-	9,884	8,750
Rhode Island..	13,455	13,029	1,835	1,978	-	-	4,450	5,145
Vermont.....	57,334	44,791	1,076	1,054	-	-	3,400	1,459
Central Atlantic								
Delaware.....	27,003	26,939	679	584	W	W	2,988	3,139
Maryland/D.C..	54,458	44,382	5,676	5,490	-	-	17,117	15,208
New Jersey....	64,403	66,755	8,126	8,444	143,743	166,068	17,085	20,346
New York.....	194,258	183,723	15,077	11,702	595	W	16,386	15,511
Pennsylvania..	124,795	116,622	16,762	16,938	-	W	84,574	73,339
Lower Atlantic								
Florida.....	239,276	240,589	20,916	20,955	-	-	31,732	33,235
Georgia.....	202,263	184,000	11,514	13,095	-	W	38,252	32,095
North Carolina	238,315	177,435	15,047	14,237	871	W	37,072	45,202
South Carolina	103,203	97,364	8,735	8,262	-	W	20,551	23,294
Virginia.....	102,924	88,213	9,074	9,417	913	-	28,292	31,493
West Virginia.	19,586	16,556	1,926	2,139	W	W	3,082	3,283
Total.....	1,686,420	1,514,743	129,963	127,364	182,247	197,187	355,375	353,947
PAD Dist. II								
Illinois.....	173,215	150,634	26,189	32,294	W	216,617	31,138	30,682
Indiana.....	201,762	167,329	14,877	14,330	W	223	26,577	12,590
Iowa.....	166,630	151,818	5,024	4,418	-	-	15,547	11,961
Kansas.....	71,771	70,896	18,137	13,493	88,008	66,899	48,563	33,940
Kentucky.....	109,846	106,034	7,136	7,017	W	W	132,921	129,501
Michigan.....	353,345	320,936	27,903	33,156	W	W	90,272	73,384
Minnesota.....	154,359	140,505	6,048	7,139	-	-	36,555	32,665
Missouri.....	246,518	191,046	11,406	9,887	W	W	36,437	31,629
Nebraska.....	59,791	59,043	6,437	4,927	W	W	12,814	8,862
North Dakota..	41,411	37,119	1,732	1,546	-	-	5,569	8,513
Ohio.....	223,309	196,883	36,720	33,495	-	-	174,581	168,735
Oklahoma.....	74,543	65,389	8,366	9,821	W	W	59,873	44,136
South Dakota..	70,154	46,675	1,970	1,848	-	-	6,920	2,457
Tennessee.....	97,812	86,571	15,261	14,088	W	W	22,704	19,447
Wisconsin.....	219,643	172,328	11,952	13,011	-	-	20,008	21,266
Total.....	2,264,109	1,963,206	199,158	200,470	135,801	328,949	720,479	629,768
PAD Dist. III								
Alabama.....	150,009	137,021	8,713	8,688	-	W	14,892	14,717
Arkansas.....	100,911	92,765	6,957	7,128	-	-	4,935	5,331
Louisiana.....	44,647	47,579	6,916	7,826	721,965	467,976	23,441	84,790
Mississippi...	112,126	102,645	10,976	12,944	W	-	38,242	21,422
New Mexico....	60,422	44,610	10,824	6,977	-	-	4,933	5,568
Texas.....	322,624	306,498	44,258	44,555	4,476,172	4,764,923	63,425	59,306
Total.....	790,739	731,118	88,644	88,118	5,225,246	5,232,904	149,868	191,134
PAD Dist. IV								
Colorado.....	78,882	69,317	5,812	5,191	W	-	20,978	20,097
Idaho.....	19,735	16,084	4,025	3,910	-	-	5,674	7,344
Montana.....	41,037	35,311	5,242	4,660	-	W	13,270	10,020
Utah.....	23,067	24,602	5,502	5,904	W	-	8,603	9,235
Wyoming.....	29,209	38,261	3,476	4,669	W	W	20,571	21,660
Total.....	191,930	183,575	24,057	24,334	14,491	776	69,096	68,356
PAD Dist. V								
Alaska.....	9,780	8,276	714	795	-	-	759	W
Arizona.....	40,671	42,327	6,231	6,230	-	-	12,254	13,796
California....	308,358	284,276	86,913	86,570	W	W	235,094	188,936
Hawaii.....	W	W	W	W	-	-	-	-
Nevada.....	42,107	30,761	1,935	2,089	W	-	10,630	9,544
Oregon.....	17,724	15,611	18,226	19,350	-	-	19,018	22,236
Washington....	30,023	26,265	24,413	26,600	-	-	34,008	26,556
Total.....	455,544	414,137	139,333	142,463	22,764	71,617	311,763	263,171
U.S. Total.....	5,388,742	4,806,779	581,155	582,749	5,580,549	5,831,433	1,606,581	1,506,376

1/ The reported data strongly suggest that this category includes not only propane consumed as a chemical feedstock, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility		Farm		Other		Total		
1989[r]	1988[r]	1989[r]	1988[r]	1989[r]	1988[r]	1989[r]	1988[r]	District & State
								PAD Dist. I
								New England
W	W	2,617	2,338	W	1,751	66,074	63,164	...Connecticut
W	3,597	217	195	W	W	65,939	67,555	.....Maine
10,065	13,978	715	601	1,048	1,044	107,588	99,149	.Massachusetts
W	W	54	26	11,204	W	103,733	87,541	.New Hampshire
W	W	W	129	W	W	20,441	23,055	..Rhode Island
W	-	225	118	W	W	63,167	48,573	.....Vermont
								Central Atlantic
-	-	7,182	7,242	W	W	39,892	38,490	.....Delaware
-	-	9,949	5,750	2,641	450	89,841	71,280	.Maryland/D.C.
906	W	848	799	4,381	3,984	239,492	266,776	....New Jersey
W	W	5,340	6,313	2,097	1,580	233,939	219,975	.....New York
W	1,697	24,018	21,455	7,882	7,957	259,193	238,111	..Pennsylvania
								Lower Atlantic
20,070	W	16,995	18,180	8,239	5,665	337,228	336,517	.....Florida
297	W	54,403	48,378	2,797	2,994	309,526	281,021	.....Georgia
W	954	94,214	88,479	5,074	2,638	391,251	329,225	North Carolina
222	W	20,185	17,348	1,382	1,900	154,278	148,301	South Carolina
W	W	32,040	28,039	14,757	20,547	188,025	177,812	.....Virginia
-	W	2,961	2,736	W	W	61,569	51,679	.West Virginia
39,612	45,366	272,006	248,126	65,553	61,691	2,731,176	2,548,224	.....Total
								PAD Dist. II
5,240	28,244	71,908	67,908	5,441	6,969	313,336	533,348	.....Illinois
W	W	69,071	56,039	5,866	8,482	327,852	272,503	.....Indiana
W	-	108,997	101,386	3,727	6,533	301,706	276,116	.....Iowa
17,017	W	42,585	33,912	84,311	31,711	370,392	303,695	.....Kansas
W	W	16,727	13,244	1,850	1,092	270,289	258,701	.....Kentucky
W	W	31,183	26,446	109,150	114,613	661,358	611,433	.....Michigan
W	W	50,615	49,519	739	1,940	249,004	232,111	.....Minnesota
W	W	27,905	38,668	4,552	3,176	347,497	274,982	.....Missouri
-	-	72,523	73,543	235	223	152,075	146,864	.....Nebraska
W	W	23,579	14,191	775	1,027	73,144	62,607	..North Dakota
W	W	43,008	37,207	6,433	9,467	484,309	445,852	.....Ohio
W	W	13,327	22,778	4,191	2,516	160,471	144,682	.....Oklahoma
-	-	71,810	12,747	1,299	2,570	152,153	66,305	..South Dakota
W	W	5,312	5,111	3,832	3,837	145,116	129,346	.....Tennessee
-	W	30,699	34,097	8,284	12,038	290,586	252,749	.....Wisconsin
59,807	95,903	679,249	586,796	240,685	206,202	4,299,288	4,011,294	.....Total
								PAD Dist. III
W	W	25,906	21,856	1,373	2,134	201,596	184,801	.....Alabama
-	W	36,588	39,541	3,461	4,209	152,852	149,004	.....Arkansas
-	W	8,353	8,101	W	7,766	806,226	653,964	.....Louisiana
-	-	16,576	16,291	971	1,145	206,000	154,447	...Mississippi
-	-	5,285	2,463	1,171	1,038	82,635	60,655	....New Mexico
W	14,224	49,093	65,124	524,144	7,517	5,479,851	5,262,147	.....Texas
838	44,559	141,801	153,376	532,024	23,809	6,929,160	6,465,018	.....Total
								PAD Dist. IV
-	-	7,478	10,764	1,926	1,635	116,004	107,004	.....Colorado
-	-	2,825	2,674	2,959	1,369	35,218	31,381	.....Idaho
-	-	2,853	1,579	4,671	2,652	67,073	54,257	.....Montana
-	W	1,565	2,247	W	W	49,354	44,373	.....Utah
-	W	2,380	3,543	2,631	3,002	63,773	72,189	.....Wyoming
-	630	17,101	20,807	14,747	10,926	331,422	309,204	.....Total
								PAD Dist. V
-	-	W	W	W	W	11,665	11,629	.....Alaska
W	W	4,128	3,695	2,432	2,482	67,513	70,315	.....Arizona
W	W	43,897	37,102	39,072	19,784	725,099	689,844	....California
-	-	W	W	W	W	7,817	7,481	.....Hawaii
-	-	1,819	1,669	5,749	W	74,012	46,125	.....Nevada
W	-	7,379	5,760	5,338	3,321	67,717	66,278	.....Oregon
-	-	5,389	6,122	4,906	4,829	98,739	90,372	....Washington
2,602	3,344	62,654	54,432	57,902	32,880	1,052,562	982,044	.....Total
102,859	189,602	1,172,811	1,063,537	910,911	335,308	15,343,608	14,315,784	.....U.S. Total

Table 4. Sales of Propane, by Use, in the United States, by PAD District and State, 1988 and 1987 (Thousands of Gallons)

District & State	Residential & Commercial 1988[r]	Residential & Commercial 1987[r]	Internal Combustion Fuel 1988[r]	Internal Combustion Fuel 1987[r]	Chemical 1/ 1988[r]	Chemical 1/ 1987[r]	Industrial 2/ 1988[r]	Industrial 2/ 1987[r]
PAD Dist. I								
New England								
Connecticut	36,685	39,262	2,916	2,395	W	W	16,185	17,269
Maine	44,713	39,774	2,852	1,733	W	W	14,646	10,348
Massachusetts	65,995	67,171	5,914	5,731	-	-	11,617	14,512
New Hampshire	66,952	60,580	1,387	2,087	-	-	8,750	9,498
Rhode Island	13,029	15,009	1,978	932	-	-	5,145	7,085
Vermont	44,791	37,765	1,054	1,193	-	-	1,459	5,979
Central Atlantic								
Delaware	26,939	24,287	584	345	W	W	3,139	5,239
Maryland/D.C.	44,382	46,933	5,490	3,616	-	-	15,208	14,116
New Jersey	66,755	54,769	8,444	9,033	166,068	129,763	20,346	25,231
New York	183,723	189,429	11,702	9,725	W	W	15,511	18,706
Pennsylvania	116,622	110,928	16,938	17,016	W	W	73,339	56,831
Lower Atlantic								
Florida	240,589	270,788	20,955	21,861	-	W	33,235	27,245
Georgia	184,000	182,867	13,095	14,608	W	W	32,095	19,914
North Carolina	177,435	191,577	14,237	14,005	W	W	45,202	45,452
South Carolina	97,364	97,273	8,262	7,855	W	W	23,294	25,889
Virginia	88,213	92,378	9,417	9,195	-	W	31,493	31,519
West Virginia	16,556	13,343	2,139	1,610	W	W	3,283	1,180
Total	1,514,743	1,534,133	127,364	122,940	197,187	167,848	353,947	335,913
PAD Dist. II								
Illinois	150,634	162,009	32,294	34,680	216,617	351,844	30,682	37,378
Indiana	167,329	146,901	14,330	14,626	223	W	12,590	12,721
Iowa	151,818	124,664	4,418	5,339	-	-	11,961	6,248
Kansas	70,896	63,503	13,493	12,469	66,899	W	33,940	39,582
Kentucky	106,034	116,527	7,017	7,963	W	W	129,501	130,824
Michigan	320,936	306,782	33,156	38,059	W	W	73,384	68,732
Minnesota	140,505	133,602	7,139	8,052	-	-	32,665	17,309
Missouri	191,046	202,468	9,887	14,830	W	W	31,629	14,849
Nebraska	59,043	60,342	4,927	5,610	W	W	8,862	5,205
North Dakota	37,119	31,490	1,546	1,550	-	W	8,513	5,637
Ohio	196,883	200,494	33,495	39,292	-	W	168,735	55,611
Oklahoma	65,389	67,304	9,821	10,387	W	W	44,136	45,159
South Dakota	46,675	64,208	1,848	5,138	-	-	2,457	6,103
Tennessee	86,571	69,443	14,088	13,399	W	W	19,447	11,821
Wisconsin	172,328	167,606	13,011	14,044	-	-	21,266	15,801
Total	1,963,206	1,917,343	200,470	225,438	328,949	543,942	629,768	472,980
PAD Dist. III								
Alabama	137,021	140,021	8,688	11,247	W	W	14,717	14,861
Arkansas	92,765	94,792	7,128	8,448	-	-	5,331	4,520
Louisiana	47,579	50,002	7,826	10,204	467,976	441,387	84,790	20,373
Mississippi	102,645	98,731	12,944	17,718	-	-	21,422	13,824
New Mexico	44,610	50,252	6,977	8,056	-	-	5,568	3,108
Texas	306,498	347,549	44,555	50,618	4,764,923	4,746,616	59,306	131,841
Total	731,118	781,347	88,118	106,291	5,232,904	5,188,088	191,134	188,527
PAD Dist. IV								
Colorado	69,317	72,651	5,191	4,398	-	-	20,097	8,947
Idaho	16,084	12,397	3,910	3,930	-	-	7,344	6,188
Montana	35,311	35,022	4,660	4,317	W	W	10,020	9,098
Utah	24,602	24,285	5,904	6,146	-	-	9,235	7,459
Wyoming	38,261	59,251	4,669	5,293	W	W	21,660	13,191
Total	183,575	203,606	34,334	24,084	776	9,143	68,356	44,883
PAD Dist. V								
Alaska	8,276	7,782	795	722	-	-	W	W
Arizona	42,327	51,299	6,230	6,774	-	-	13,796	8,950
California	284,276	256,371	86,570	93,842	W	85,009	188,936	198,019
Hawaii	W	W	W	W	-	-	-	-
Nevada	30,761	25,858	2,089	1,978	-	-	9,544	9,673
Oregon	15,611	20,719	19,350	19,595	-	-	22,236	15,695
Washington	26,265	32,911	26,600	27,546	-	-	26,556	18,583
Total	414,137	400,842	142,463	151,095	71,617	85,009	263,171	252,768
U.S. Total	4,806,779	4,837,271	582,749	629,848	5,831,433	5,994,030	1,506,376	1,295,071

1/ The reported data strongly suggest that this category includes not only propane consumed as a chemical feedstock, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1988[r]	Gas Utility 1987[r]	Farm 1988[r]	Farm 1987[r]	Other 1988[r]	Other 1987[r]	Total 1988[r]	Total 1987[r]	District & State
								PAD Dist. I
								New England
W	W	2,338	2,281	1,751	2,610	63,164	64,725	...Connecticut
3,597	W	195	186	W	389	67,555	54,722	.....Maine
13,978	20,796	601	731	1,044	996	99,149	109,897	.Massachusetts
W	2,828	26	2,355	W	W	87,541	86,351	.New Hampshire
W	W	129	100	W	W	23,055	26,432	..Rhode Island
-	-	118	362	W	W	48,573	46,237	.....Vermont
								Central Atlantic
-	-	7,242	2,923	W	W	38,490	38,575	.....Delaware
-	W	5,750	3,746	450	3,883	71,280	73,113	.Maryland/D.C.
W	W	799	2,088	3,984	1,657	266,776	223,383	....New Jersey
W	W	6,313	7,038	1,580	3,102	219,975	229,876	.....New York
1,697	W	21,455	17,238	7,957	15,138	238,111	217,932	..Pennsylvania
								Lower Atlantic
W	19,844	18,180	16,577	5,665	8,962	336,517	365,292	.....Florida
W	308	48,378	44,146	2,994	2,779	281,021	265,079	.....Georgia
954	W	88,479	97,955	2,638	17,536	329,225	367,272	North Carolina
W	2,604	17,348	16,126	1,900	1,615	148,301	151,769	South Carolina
W	W	28,039	25,792	20,547	14,148	177,812	173,168	.....Virginia
W	W	2,736	2,391	W	W	51,679	50,495	.West Virginia
45,366	53,248	248,126	242,035	61,491	88,201	2,548,224	2,544,318	.....Total
								PAD Dist. II
28,244	W	67,908	76,459	6,969	7,237	533,348	669,993	.....Illinois
W	W	56,039	50,549	8,482	7,517	272,503	249,244	.....Indiana
-	W	101,386	112,638	6,533	5,333	276,116	254,283	.....Iowa
W	W	33,912	28,961	31,711	6,891	303,695	177,134	.....Kansas
W	W	13,244	12,178	1,092	1,052	258,701	278,831	.....Kentucky
W	898	26,446	32,870	114,613	150,698	611,433	644,758	.....Michigan
W	W	49,519	61,670	1,940	2,596	232,111	223,251	.....Minnesota
W	W	38,668	26,470	3,176	1,904	274,982	260,939	.....Missouri
-	-	73,543	63,708	223	84	146,864	135,162	.....Nebraska
W	W	14,191	18,969	1,027	9,408	62,607	67,124	..North Dakota
W	936	37,207	41,132	9,467	7,428	445,852	453,621	.....Ohio
W	W	22,778	23,118	2,516	684	144,682	146,888	.....Oklahoma
-	W	12,747	22,501	2,578	1,034	66,305	99,019	..South Dakota
W	W	5,111	11,122	3,837	2,201	129,346	108,397	.....Tennessee
W	W	34,097	28,897	12,038	10,110	252,749	236,476	.....Wisconsin
95,903	19,998	586,796	611,242	206,202	214,177	4,011,294	4,005,120	.....Total
								PAD Dist. III
W	W	21,856	26,216	2,134	1,745	184,801	194,178	.....Alabama
W	W	39,541	35,375	4,209	3,638	149,004	146,806	.....Arkansas
W	-	8,101	9,810	7,766	6,026	653,964	537,802	.....Louisiana
-	-	16,291	16,317	1,145	1,125	154,447	147,715	...Mississippi
-	-	2,463	1,997	1,038	1,310	60,655	64,723	....New Mexico
14,224	W	65,124	61,404	7,517	10,153	5,262,147	5,363,882	.....Texas
44,559	15,737	153,376	151,119	23,809	23,997	6,465,018	6,455,106	.....Total
								PAD Dist. IV
-	-	10,764	5,626	1,635	1,346	107,004	92,968	.....Colorado
-	-	2,674	2,695	1,369	884	31,381	26,094	.....Idaho
-	-	1,579	2,854	2,652	W	54,257	52,498	.....Montana
W	W	2,247	2,740	W	2,400	44,373	43,140	.....Utah
W	W	3,543	6,193	3,002	711	72,189	94,042	.....Wyoming
430	427	20,807	20,108	10,926	6,491	309,204	308,742	.....Total
								PAD Dist. V
-	-	W	W	W	W	11,629	11,373	.....Alaska
W	-	3,695	3,985	2,482	3,772	70,315	74,780	.....Arizona
W	3,215	37,102	35,234	19,784	29,236	689,844	700,926	....California
-	-	W	W	W	-	7,481	6,595	.....Hawaii
-	-	1,669	414	W	1,482	46,125	39,405	.....Nevada
-	-	5,760	5,161	3,321	1,038	66,278	62,238	.....Oregon
-	-	6,122	5,606	4,829	641	90,372	85,287	....Washington
3,344	3,215	54,432	50,959	32,880	36,686	982,044	980,574	.....Total
189,602	92,625	1,063,537	1,075,463	335,308	369,552	14,315,784	14,293,860	.....U.S. Total

Table 4. Sales of Propane, by Use, in the United States, by PAD District and State, 1987 and 1986 (Thousands of Gallons)

District & State	Residential & Commercial 1987r	Residential & Commercial 1986r	Internal Combustion Fuel 1987r	Internal Combustion Fuel 1986r	Chemical 1/ 1987r	Chemical 1/ 1986r	Industrial 2/ 1987r	Industrial 2/ 1986r
PAD Dist. I								
New England								
Connecticut	39,262	27,769	2,395	2,040	W	W	17,269	13,222
Maine	39,774	25,190	1,733	2,112	W	W	10,348	11,897
Massachusetts	67,171	56,172	5,731	5,702	-	-	14,512	10,697
New Hampshire	60,580	51,062	2,087	1,500	-	-	9,498	10,914
Rhode Island	15,009	12,649	932	1,687	-	W	7,085	3,962
Vermont	37,765	30,017	1,193	942	-	-	5,879	4,512
Central Atlantic								
Delaware	24,287	20,403	345	4,104	W	W	5,239	W
Maryland/D.C.	46,933	37,510	3,616	3,270	-	-	14,116	12,542
New Jersey	54,769	50,654	9,033	9,394	129,763	95,212	25,231	30,424
New York	189,429	162,157	9,725	9,920	W	W	18,706	23,549
Pennsylvania	110,928	97,749	17,016	17,632	W	W	56,831	52,108
Lower Atlantic								
Florida	270,788	316,882	21,861	40,284	W	W	27,245	28,582
Georgia	182,867	175,370	14,608	17,308	W	W	19,914	21,482
North Carolina	191,577	157,128	14,005	15,622	W	W	45,452	42,015
South Carolina	97,273	82,827	7,855	6,959	W	W	25,889	16,708
Virginia	92,378	75,653	9,195	5,195	W	W	31,519	36,509
West Virginia	13,343	11,274	1,610	1,800	W	W	1,180	2,148
Total	1,534,133	1,390,466	122,940	145,471	167,848	135,739	335,913	325,073
PAD Dist. II								
Illinois	162,009	149,588	34,680	34,741	351,844	70,742	37,378	32,820
Indiana	146,901	128,581	14,626	13,444	W	W	12,721	10,544
Iowa	124,664	161,441	5,339	12,974	-	-	6,248	15,192
Kansas	63,503	59,697	12,469	9,270	W	7,957	39,582	28,456
Kentucky	116,527	81,456	7,963	7,426	W	W	130,824	83,338
Michigan	306,782	248,964	38,059	26,027	W	-	68,732	53,971
Minnesota	133,602	138,133	8,052	11,588	-	-	17,309	33,576
Missouri	202,468	193,032	14,830	14,442	W	-	14,849	18,698
Nebraska	60,342	43,932	5,610	3,488	W	-	5,205	6,221
North Dakota	31,490	30,803	1,550	2,099	W	-	5,637	3,376
Ohio	200,494	170,150	39,292	37,840	W	W	55,611	42,011
Oklahoma	67,304	72,994	10,387	9,687	W	W	45,159	38,055
South Dakota	64,208	41,574	5,138	2,310	-	-	6,103	1,879
Tennessee	69,443	70,417	13,399	18,494	W	W	11,821	18,335
Wisconsin	167,606	151,087	14,044	12,739	-	W	15,801	21,833
Total	1,917,343	1,741,849	225,438	216,569	543,942	187,707	472,980	406,305
PAD Dist. III								
Alabama	140,021	117,897	11,247	13,451	W	W	14,861	15,726
Arkansas	94,792	113,604	8,448	8,442	-	-	4,520	5,177
Louisiana	50,002	52,368	10,204	8,667	441,387	544,191	20,373	20,202
Mississippi	98,731	83,452	17,718	17,682	-	W	13,824	17,346
New Mexico	50,252	49,434	8,056	8,492	-	W	3,108	4,240
Texas	347,549	326,269	50,618	70,386	4,746,616	3,808,111	131,841	125,627
Total	781,347	743,024	106,291	127,120	5,188,088	4,364,042	188,527	188,318
PAD Dist. IV								
Colorado	72,651	66,960	4,398	5,441	-	-	8,947	12,576
Idaho	12,397	14,232	3,930	5,990	-	-	6,188	7,704
Montana	35,022	31,668	4,317	5,078	W	-	9,098	16,034
Utah	24,285	21,329	6,146	6,711	-	-	7,459	6,454
Wyoming	59,251	30,091	5,293	4,453	W	-	13,191	19,119
Total	203,606	164,280	24,084	27,673	9,143	-	44,883	61,887
PAD Dist. V								
Alaska	7,782	W	722	W	-	-	W	W
Arizona	51,299	45,278	6,774	7,828	-	-	8,950	10,598
California	256,371	201,895	93,842	85,778	85,009	W	198,019	174,490
Hawaii	W	W	W	W	-	-	-	-
Nevada	25,858	27,008	1,978	2,046	-	-	9,673	7,282
Oregon	20,719	21,470	19,595	14,335	-	-	15,695	22,306
Washington	32,911	21,125	27,546	26,064	-	-	18,583	18,113
Total	400,842	328,972	151,095	137,335	85,009	104,497	252,768	234,880
U.S. Total	4,837,271	4,368,591	629,848	654,168	5,994,030	4,791,985	1,295,071	1,218,463

1/ The reported data strongly suggest that this category includes not only propane consumed as a chemical feedstock, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1987[r]	Gas Utility 1986[r]	Farm 1987[r]	Farm 1986[r]	Other 1987[r]	Other 1986[r]	Total 1987[r]	Total 1986[r]	District & State
								PAD Dist. I
								New England
W	W	2,281	689	2,610	309	64,725	44,886	...Connecticut
W	W	186	1,018	389	W	54,722	43,612	.....Maine
20,756	W	731	251	996	813	109,897	91,021	.Massachusetts
2,828	726	2,355	69	W	6,273	86,351	70,544	.New Hampshire
W	W	100	35	W	334	26,432	18,863	..Rhode Island
-	W	362	127	W	W	46,237	36,432	.....Vermont
								Central Atlantic
-	-	2,923	1,772	W	2,060	38,575	32,865	.....Delaware
W	-	3,746	3,125	3,883	2,150	73,113	58,597	.Maryland/D.C.
W	W	2,088	1,977	1,657	646	223,383	189,446	....New Jersey
W	W	7,038	6,959	3,102	1,008	229,876	204,861	.....New York
W	-	17,238	17,932	15,138	1,889	217,932	187,462	..Pennsylvania
								Lower Atlantic
19,844	13,306	16,577	16,396	8,962	4,512	365,292	421,835	.....Florida
308	W	44,146	45,608	2,779	3,769	265,079	264,406	.....Georgia
W	W	97,955	81,787	17,536	4,158	367,272	301,340	North Carolina
2,604	375	16,126	12,638	1,615	763	151,769	120,674	South Carolina
W	W	25,792	17,503	14,148	5,589	173,168	141,827	.....Virginia
W	W	2,391	644	W	163	50,495	48,191	.West Virginia
53,248	35,577	242,035	208,530	88,201	36,006	2,544,318	2,276,862	.....Total
								PAD Dist. II
W	W	76,459	152,903	7,237	2,821	669,993	549,332	.....Illinois
W	W	50,549	50,889	7,517	1,895	249,244	213,756	.....Indiana
W	-	112,638	175,957	5,333	464	254,283	366,028	.....Iowa
W	W	28,961	19,797	6,891	1,088	177,134	126,280	.....Kansas
W	287	12,178	3,993	1,052	263	278,831	190,632	.....Kentucky
998	65,831	32,870	30,206	150,698	113,092	644,758	538,091	.....Michigan
W	36	61,670	71,617	2,596	2,673	223,251	257,623	.....Minnesota
W	W	26,470	20,049	1,904	1,165	260,939	247,715	.....Missouri
-	-	63,708	48,531	84	635	135,162	102,807	.....Nebraska
W	W	18,969	17,073	9,408	5,927	67,124	59,310	..North Dakota
936	W	41,132	41,653	7,428	3,595	453,621	390,228	.....Ohio
W	W	23,118	19,451	684	319	146,888	140,660	.....Oklahoma
W	W	22,501	19,278	1,034	734	99,019	65,801	..South Dakota
W	W	11,122	2,553	2,201	635	108,397	111,029	.....Tennessee
W	W	26,897	36,663	10,110	2,307	236,476	224,820	.....Wisconsin
19,998	101,456	611,242	710,613	214,177	137,613	4,005,130	3,584,112	.....Total
								PAD Dist. III
W	-	26,216	20,914	1,745	329	194,178	160,818	.....Alabama
W	-	35,375	31,451	3,638	758	146,806	159,432	.....Arkansas
-	W	9,810	6,095	6,026	10,410	537,802	761,466	.....Louisiana
-	W	16,317	14,468	1,125	1,374	147,715	148,065	...Mississippi
-	W	1,997	3,806	1,310	1,208	64,723	68,067	....New Mexico
W	52,557	61,404	69,528	10,153	18,228	5,363,882	4,470,706	.....Texas
15,737	175,481	151,119	146,262	23,997	32,307	6,455,106	5,776,554	.....Total
								PAD Dist. IV
-	-	5,626	2,272	1,346	836	92,968	88,085	.....Colorado
-	-	2,695	2,293	884	651	26,094	30,870	.....Idaho
-	-	2,854	9,161	W	W	52,498	63,212	.....Montana
W	W	2,740	1,780	2,400	W	43,140	37,720	.....Utah
W	W	6,193	2,036	711	614	94,042	56,389	.....Wyoming
427	230	20,108	17,542	6,491	4,664	308,742	276,276	.....Total
								PAD Dist. V
-	-	W	W	W	W	11,373	11,260	.....Alaska
-	-	3,985	3,633	3,772	W	74,780	68,439	.....Arizona
3,215	3,504	35,234	32,342	29,236	15,493	700,926	617,999	....California
-	-	W	W	-	-	6,595	5,286	.....Hawaii
-	-	414	1,351	1,482	1,110	39,405	38,797	.....Nevada
-	-	5,161	4,721	1,038	639	62,208	63,471	.....Oregon
-	-	5,606	6,369	641	541	85,287	72,212	....Washington
3,215	3,504	50,959	48,958	36,686	19,318	980,574	877,464	.....Total
92,625	396,248	1,075,463	1,131,905	369,552	229,908	14,293,860	12,791,268	.....U.S. Total

Table 4. Sales of Propane, by Use, in the United States, by PAD District and State, 1986 and 1985 (Thousands of Gallons)

District & State	Residential & Commercial 1986r	Residential & Commercial 1985r	Internal Combustion Fuel 1986r	Internal Combustion Fuel 1985r	Chemical 1/ 1986r	Chemical 1/ 1985r	Industrial 2/ 1986r	Industrial 2/ 1985r
PAD Dist. I								
New England								
Connecticut	27,769	31,569	2,040	3,023	W	W	13,222	15,519
Maine	25,190	17,219	2,112	1,460	W	W	11,897	6,498
Massachusetts	56,172	50,469	5,702	6,643	-	W	10,697	8,018
New Hampshire	51,062	42,272	1,500	2,285	-	-	10,914	9,361
Rhode Island	12,649	13,786	1,687	2,122	W	-	3,962	3,076
Vermont	30,017	29,705	942	1,282	-	-	4,512	1,369
Central Atlantic								
Delaware	20,403	29,279	4,104	460	W	W	W	2,337
Maryland/D.C.	37,510	48,814	3,270	5,800	-	-	12,542	10,926
New Jersey	50,654	45,367	9,394	10,567	95,212	W	30,424	20,012
New York	162,157	159,459	9,920	14,030	W	-	23,549	23,335
Pennsylvania	97,749	113,576	17,632	23,728	W	W	52,108	43,039
Lower Atlantic								
Florida	316,882	296,117	40,284	37,253	W	-	28,582	25,101
Georgia	175,370	195,263	17,308	20,228	W	W	21,482	22,811
North Carolina	157,128	157,811	15,622	17,476	W	498	42,015	36,378
South Carolina	82,827	91,824	6,959	13,352	W	W	16,708	11,780
Virginia	75,653	89,182	5,195	9,742	W	W	36,509	33,714
West Virginia	11,274	11,105	1,800	2,094	W	W	2,148	1,947
Total	1,390,466	1,422,817	145,471	171,545	135,739	245,926	325,073	275,221
PAD Dist. II								
Illinois	149,588	173,816	34,741	40,335	70,742	58,693	32,820	23,459
Indiana	128,581	115,641	13,444	14,093	W	-	10,544	9,298
Iowa	161,441	148,029	12,974	8,573	-	-	15,192	15,218
Kansas	59,697	72,575	9,270	9,092	7,957	W	28,456	20,208
Kentucky	81,456	78,387	7,426	9,388	W	W	83,338	97,586
Michigan	248,964	218,762	26,027	27,753	-	-	53,971	48,208
Minnesota	138,133	118,588	11,588	11,737	-	-	33,576	23,889
Missouri	193,032	172,735	14,442	13,148	-	-	18,698	24,975
Nebraska	43,932	49,324	3,488	5,435	-	-	6,221	6,674
North Dakota	30,803	8,360	2,099	1,009	-	-	3,376	3,251
Ohio	170,150	164,982	37,840	36,136	W	W	42,011	43,784
Oklahoma	72,994	98,173	9,687	12,742	W	W	38,055	61,366
South Dakota	41,574	34,747	2,310	2,298	-	-	1,879	745
Tennessee	70,417	59,721	18,494	15,874	W	W	18,335	14,855
Wisconsin	151,087	150,448	12,739	17,537	W	-	21,833	24,414
Total	1,741,849	1,664,288	216,569	225,150	187,707	174,541	408,305	414,930
PAD Dist. III								
Alabama	117,897	103,022	13,451	15,324	W	W	15,726	6,372
Arkansas	113,604	102,913	8,442	14,030	-	-	5,177	6,016
Louisiana	52,368	48,854	8,667	10,433	544,191	527,184	20,202	31,234
Mississippi	83,452	94,186	17,682	22,186	W	-	17,346	48,002
New Mexico	49,434	103,325	8,492	9,064	W	-	4,240	5,003
Texas	326,269	307,365	70,386	58,121	3,808,111	4,258,915	125,627	66,319
Total	743,024	759,665	127,120	129,158	4,364,042	4,786,499	188,318	162,946
PAD Dist. IV								
Colorado	66,960	68,323	5,441	6,484	-	W	12,576	11,298
Idaho	14,232	16,194	5,990	5,676	-	-	7,704	7,254
Montana	31,668	29,852	5,078	4,855	-	-	16,034	9,484
Utah	21,329	29,479	6,711	7,224	-	W	6,454	7,459
Wyoming	30,091	21,196	4,453	4,325	-	W	19,119	26,569
Total	164,280	165,044	27,673	28,564	-	2,841	61,887	62,064
PAD Dist. V								
Alaska	W	W	W	W	-	-	W	W
Arizona	45,278	47,253	7,828	8,735	-	W	10,598	9,133
California	201,895	245,698	85,778	116,928	W	W	174,490	161,055
Hawaii	W	W	W	W	-	-	-	-
Nevada	27,008	32,137	2,046	2,974	-	-	7,282	4,941
Oregon	21,470	25,528	14,335	18,220	-	-	22,306	15,878
Washington	21,125	27,307	26,064	31,437	-	-	18,113	13,483
Total	328,972	392,372	137,335	180,188	104,497	72,197	234,880	206,535
U.S. Total	4,368,591	4,404,186	654,168	734,605	4,791,985	5,282,004	1,218,463	1,121,696

1/ The reported data strongly suggest that this category includes not only propane consumed as a chemical feedstock, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility		Farm		Other		Total		
1986[r]	1985[r]	1986[r]	1985[r]	1986[r]	1985[r]	1986[r]	1985[r]	District & State
								PAD Dist. I
								New England
W	W	689	768	309	349	44,886	52,927	...Connecticut
W	W	1,018	18	W	W	43,612	28,325	.....Maine
W	3,336	251	360	813	735	91,021	69,589	.Massachusetts
726	11,574	69	90	6,273	W	70,544	66,616	.New Hampshire
W	-	35	W	334	2,050	18,863	21,038	..Rhode Island
W	W	127	178	W	W	36,432	33,201	.....Vermont
								Central Atlantic
-	W	1,772	6,855	2,060	W	32,865	41,100	.....Delaware
-	W	3,125	5,366	2,150	1,517	58,597	75,669	.Maryland/D.C.
W	W	1,977	2,186	646	1,912	189,446	232,860	....New Jersey
W	W	6,959	7,685	1,008	1,840	204,861	206,680	.....New York
-	W	17,932	15,713	1,889	1,145	187,462	253,727	..Pennsylvania
								Lower Atlantic
13,306	14,521	16,396	12,006	4,512	3,686	421,835	388,684	.....Florida
W	2,140	45,608	41,674	3,769	2,886	264,406	285,346	.....Georgia
W	W	81,787	98,497	4,158	3,474	301,340	314,839	North Carolina
375	1,119	12,638	13,270	763	826	120,674	132,711	South Carolina
W	5,369	17,503	19,970	5,589	6,233	141,827	164,772	.....Virginia
W	W	644	719	163	W	48,191	48,092	.West Virginia
35,577	45,154	208,530	225,359	36,006	30,154	2,276,862	2,416,176	.....Total
								PAD Dist. II
W	W	152,903	164,239	2,821	2,969	549,332	464,635	.....Illinois
W	7,722	50,889	51,208	1,895	4,217	213,756	202,679	.....Indiana
-	-	175,957	182,674	464	353	366,028	354,247	.....Iowa
W	-	19,797	18,208	1,088	464,428	126,280	585,663	.....Kansas
287	240	3,993	5,374	263	W	190,632	192,615	.....Kentucky
65,831	W	30,206	30,270	113,092	121,394	538,091	446,390	.....Michigan
36	W	71,617	64,830	2,673	883	257,623	219,963	.....Minnesota
W	W	20,049	15,827	1,165	774	247,715	233,430	.....Missouri
-	-	48,531	47,138	635	180	102,807	108,751	.....Nebraska
W	W	17,073	4,409	5,927	W	59,310	17,075	..North Dakota
W	W	41,653	41,273	3,595	2,307	390,228	395,241	.....Ohio
W	2,325	19,451	26,564	319	1,859	140,660	210,934	.....Oklahoma
W	W	19,278	13,601	734	-	65,801	51,534	..South Dakota
W	-	2,553	3,510	635	593	111,029	94,901	.....Tennessee
W	1,908	36,663	31,597	2,307	2,474	224,820	225,378	.....Wisconsin
181,456	21,391	710,613	700,622	137,613	602,514	3,584,112	3,803,436	.....Total
								PAD Dist. III
-	W	20,914	24,831	329	3,103	168,818	153,084	.....Alabama
-	-	31,451	30,285	758	847	159,432	154,091	.....Arkansas
W	W	6,095	6,262	10,410	946	761,466	730,454	.....Louisiana
W	-	14,468	17,121	1,374	4,696	148,065	186,191	...Mississippi
W	-	3,806	4,432	1,208	475	68,067	122,299	....New Mexico
52,557	3,566	69,528	65,826	18,228	23,837	4,470,706	4,783,949	.....Texas
175,481	109,139	146,262	148,757	32,307	33,904	5,776,554	6,130,068	.....Total
								PAD Dist. IV
-	W	2,272	4,296	836	3,219	88,085	93,966	.....Colorado
-	-	2,293	2,475	651	1,072	30,870	32,671	.....Idaho
-	-	9,161	10,165	W	1,193	53,212	55,549	.....Montana
W	W	1,780	1,763	W	1,841	37,720	51,963	.....Utah
W	W	2,036	1,293	614	662	56,389	59,053	.....Wyoming
230	6,710	17,542	19,992	4,664	7,987	276,276	293,202	.....Total
								PAD Dist. V
-	-	W	W	W	W	11,260	13,889	.....Alaska
-	-	3,633	4,924	W	W	68,439	70,324	.....Arizona
3,504	6,061	32,342	43,716	15,493	9,532	617,999	655,185	....California
-	-	W	W	-	-	5,286	5,595	.....Hawaii
-	-	1,351	2,777	1,110	980	38,797	43,809	.....Nevada
-	-	4,721	3,700	639	W	63,471	63,821	.....Oregon
-	-	6,369	5,840	541	W	72,212	78,559	....Washington
3,504	6,061	48,958	61,549	19,318	12,280	877,464	931,182	.....Total
396,248	188,455	1,131,905	1,156,279	229,908	686,839	12,791,268	13,574,064	.....U.S. Total

Table 4. Sales of Propane, by Use, in the United States, by PAD District and State, 1985 and 1984 (Thousands of Gallons)

District & State	Residential & Commercial 1985[r]	Residential & Commercial 1984[r]	Internal Combustion Fuel 1985[r]	Internal Combustion Fuel 1984[r]	Chemical 1/ 1985[r]	Chemical 1/ 1984[r]	Industrial 2/ 1985[r]	Industrial 2/ 1984[r]
PAD Dist. I								
New England								
Connecticut...	31,569	27,389	3,023	2,830	W	2,831	15,519	16,658
Maine.....	17,219	11,431	1,460	1,395	W	W	6,498	7,215
Massachusetts.	50,469	42,474	6,643	6,829	W	W	8,018	7,728
New Hampshire.	42,272	36,861	2,285	1,689	-	-	9,361	8,353
Rhode Island..	13,786	8,044	2,122	2,059	-	-	3,076	2,536
Vermont.....	29,705	24,770	1,282	1,116	-	-	1,369	1,065
Central Atlantic								
Delaware.....	29,279	26,487	460	446	W	W	2,337	14,664
Maryland/D.C..	48,814	51,512	5,800	5,631	-	-	10,926	34,528
New Jersey....	45,367	45,587	10,567	12,900	W	180,606	20,012	26,433
New York.....	159,459	146,421	14,030	13,951	-	W	23,335	21,093
Pennsylvania..	113,576	112,862	23,728	24,173	W	52,614	43,039	46,956
Lower Atlantic								
Florida.....	296,117	255,733	37,253	35,778	-	-	25,101	25,509
Georgia.....	195,263	178,014	20,228	21,211	W	W	22,811	20,822
North Carolina	157,811	156,281	17,476	13,806	498	W	36,378	28,318
South Carolina	91,824	77,874	13,352	9,240	W	W	11,780	9,001
Virginia.....	89,182	86,002	9,742	9,334	W	W	33,714	28,075
West Virginia.	11,105	9,968	2,094	1,377	W	W	1,947	2,877
Total.....	1,422,817	1,297,710	171,545	163,765	245,926	241,651	275,221	301,831
PAD Dist. II								
Illinois.....	173,816	163,241	40,335	46,529	58,693	113,889	23,459	33,162
Indiana.....	115,641	135,536	14,093	14,543	-	-	9,298	8,905
Iowa.....	148,029	145,515	8,573	9,506	-	-	15,218	11,068
Kansas.....	72,575	49,862	9,092	6,833	W	W	20,208	12,183
Kentucky.....	78,387	66,577	9,388	19,393	W	W	97,586	87,523
Michigan.....	218,762	218,572	27,753	28,867	-	-	48,209	39,356
Minnesota.....	118,588	118,540	11,737	11,818	-	-	23,889	21,330
Missouri.....	172,735	156,497	13,148	12,222	-	-	24,975	36,758
Nebraska.....	49,324	37,849	5,435	4,777	-	W	6,674	4,678
North Dakota..	8,360	6,353	1,009	1,325	-	-	3,251	1,760
Ohio.....	164,982	163,474	36,136	35,988	W	W	43,784	41,640
Oklahoma.....	98,173	77,967	12,742	8,897	W	W	61,366	53,289
South Dakota..	34,747	29,837	2,298	1,835	-	-	745	926
Tennessee.....	59,721	57,297	15,874	15,868	W	W	14,855	14,108
Wisconsin.....	150,448	161,389	17,537	18,024	-	W	21,414	13,697
Total.....	1,664,288	1,588,506	225,150	236,425	174,541	257,849	414,930	380,383
PAD Dist. III								
Alabama.....	103,022	99,503	15,324	14,627	W	W	6,372	8,906
Arkansas.....	102,913	89,487	14,030	12,651	-	-	6,016	6,503
Louisiana.....	48,854	44,626	10,433	23,397	587,184	624,547	31,234	62,399
Mississippi...	94,186	79,017	22,186	19,264	-	-	48,002	19,497
New Mexico....	103,325	29,283	9,064	5,475	-	W	5,003	78,702
Texas.....	307,365	193,364	58,121	54,118	4,258,935	3,634,494	66,319	93,728
Total.....	759,665	535,280	129,158	129,532	4,786,499	4,260,337	162,946	269,735
PAD Dist. IV								
Colorado.....	60,323	63,498	6,484	6,851	W	W	11,298	11,211
Idaho.....	16,194	12,690	5,676	5,652	-	-	7,254	6,756
Montana.....	29,852	21,131	4,855	4,575	-	-	9,484	8,574
Utah.....	29,479	29,843	7,224	7,631	W	W	7,459	5,475
Wyoming.....	21,196	21,833	4,325	4,229	W	W	26,569	16,391
Total.....	165,044	148,995	28,564	28,938	2,841	2,995	62,064	48,407
PAD Dist. V								
Alaska.....	W	W	W	W	-	-	W	W
Arizona.....	47,253	35,973	8,735	8,651	W	-	9,133	12,770
California....	245,698	197,456	116,928	114,300	W	W	161,055	165,152
Hawaii.....	W	W	W	W	-	-	-	-
Nevada.....	32,137	24,929	2,974	2,856	-	-	4,941	3,387
Oregon.....	25,528	21,810	18,220	19,193	-	-	15,878	10,144
Washington....	27,307	23,776	31,437	32,102	-	-	13,483	24,127
Total.....	392,372	316,080	180,188	178,841	72,197	98,342	206,535	217,294
U.S. Total.....	4,404,186	3,886,571	734,605	737,501	5,282,004	4,861,174	1,121,696	1,217,650

1/ The reported data strongly suggest that this category includes not only propane consumed as a chemical feedstock, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use.
r Revised, state totals only.
W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility		Farm		Other		Total		
1985[r]	1984[r]	1985[r]	1984[r]	1985[r]	1984[r]	1985[r]	1984[r]	District & State
								PAD Dist. I
								New England
W	W	768	642	349	4,420	52,927	55,344	...Connecticut
W	-	18	24	W	W	28,325	25,405	.....Maine
3,336	2,451	360	312	735	9,046	69,589	69,277	.Massachusetts
11,574	1,994	90	23	W	W	66,616	50,695	.New Hampshire
-	-	W	W	2,050	361	21,038	13,013	..Rhode Island
W	W	178	51	W	W	33,201	27,115	.....Vermont
								Central Atlantic
W	W	6,855	5,750	W	W	41,100	50,165	.....Delaware
W	W	5,366	4,971	1,517	1,972	75,669	99,565	.Maryland/D.C.
W	W	2,186	2,578	1,912	1,855	232,860	271,593	....New Jersey
W	W	7,685	6,938	1,840	21,684	206,680	211,232	.....New York
W	W	15,713	16,531	1,145	9,520	253,727	263,450	..Pennsylvania
								Lower Atlantic
14,521	11,846	12,006	11,113	3,686	W	388,684	340,469	.....Florida
2,140	W	41,674	32,035	2,886	1,514	285,346	253,748	.....Georgia
W	W	98,497	83,073	3,474	1,467	314,839	283,721	North Carolina
1,119	264	13,270	8,275	826	226	132,711	105,265	South Carolina
5,369	1,380	19,970	19,890	6,233	9,983	164,772	155,270	.....Virginia
W	W	719	659	W	W	48,092	14,975	.West Virginia
45,154	23,323	225,359	192,878	30,154	69,144	2,416,176	2,290,302	.....Total
								PAD Dist. II
W	W	164,239	144,444	2,969	37,197	464,635	557,606	.....Illinois
7,722	9,138	51,708	50,198	4,217	4,798	202,679	223,118	.....Indiana
-	-	182,074	135,302	353	4,761	354,247	306,152	.....Iowa
-	W	18,208	44,618	464,428	400,143	585,663	555,340	.....Kansas
240	W	5,374	7,353	W	½	192,615	182,002	.....Kentucky
W	W	30,270	24,415	121,394	3,817	446,390	315,031	.....Michigan
W	W	64,830	51,643	883	4,352	219,963	207,719	....Minnesota
W	W	15,827	12,063	774	5,446	233,430	232,148	.....Missouri
-	-	47,138	37,003	180	3,380	108,751	88,871	.....Nebraska
W	-	4,409	7,443	W	W	17,075	19,053	..North Dakota
W	86	41,273	42,093	2,307	2,909	395,241	368,816	.....Ohio
2,325	W	26,564	18,296	1,859	7,224	210,934	183,284	.....Oklahoma
W	-	13,601	8,948	-	W	51,534	42,524	..South Dakota
-	W	3,510	3,452	593	569	94,901	91,565	.....Tennessee
1,908	W	31,597	29,201	2,474	6,650	225,378	232,093	.....Wisconsin
21,391	41,010	700,622	616,472	602,514	484,677	3,803,436	3,605,322	.....Total
								PAD Dist. III
W	-	24,831	17,089	3,103	W	153,084	140,901	.....Alabama
-	-	30,285	23,671	847	W	154,091	132,796	.....Arkansas
W	W	6,262	5,673	946	38,045	730,454	896,069	.....Louisiana
-	-	17,121	15,906	4,696	2,303	186,191	135,987	...Mississippi
-	-	4,432	1,339	475	2,966	122,299	118,684	....New Mexico
3,566	W	65,826	49,046	23,837	357,926	4,783,949	4,386,221	.....Texas
109,139	100,927	148,757	112,724	33,904	402,123	6,130,068	5,810,658	.....Total
								PAD Dist. IV
W	W	4,296	4,862	3,219	4,533	93,966	91,311	.....Colorado
-	-	2,475	2,343	1,072	W	32,671	28,263	.....Idaho
-	-	10,165	7,198	1,193	862	55,549	42,340	.....Montana
W	W	1,763	1,628	1,841	3,830	51,963	50,553	.....Utah
W	W	1,293	2,005	662	20,208	59,053	65,447	.....Wyoming
6,710	288	19,992	18,036	7,987	30,255	293,202	277,914	.....Total
								PAD Dist. V
-	-	W	W	W	W	13,889	11,423	.....Alaska
-	-	4,924	5,207	W	W	70,324	62,850	.....Arizona
6,061	2,836	43,716	39,656	9,532	12,000	655,185	629,742	....California
-	-	W	W	-	-	5,595	5,066	.....Hawaii
-	-	2,777	1,450	980	674	43,809	33,296	.....Nevada
-	-	3,700	2,849	W	W	63,821	54,578	.....Oregon
-	-	5,840	5,054	W	W	78,559	85,717	....Washington
6,061	2,836	61,549	54,711	12,280	14,568	931,182	882,672	.....Total
188,455	168,384	1,156,279	994,821	686,839	1,000,767	13,574,064	12,866,868	.....U.S. Total

ETHANE—A normally gaseous paraffinic compound (C2H6). Include ethane sold in an ethane-propane mix. Note: Report ethane-ethylene mixtures for chemical use under Section A5. Subheading a. "Raw Materials and Solvents for Chemical Plants."

PROPANE—Include all products covered by the Gas Processors Association (GPA) specifications for commercial and HD-5 propane including propane sold in ethane-propane and butane-propane mixes. Also include propylene in this category.

BUTANE—Include all products covered by GPA specifications for commercial butane including butane sold in a butane-propane mix. Also include isobutane and butylene in this category.

PENTANES-PLUS—A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Include isopentane, natural gasoline and plant condensate. Exclude field condensate which is mixed with crude oil and reported as part of crude oil and field condensate production to DOE.

LIQUEFIED REFINERY GASES (LRG)

Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration they are retained in the liquid state. The reporting categories are ethane/ethylene, propane/propylene, normal butane/butylene. Excludes still gas used for chemical or rubber manufacture which is reported as a petrochemical feedstock and also excludes liquefied petroleum gases intended for blending into gasoline which are reported as gasoline blending components. Liquefied refinery gases are reported for use as petrochemical feedstock or other uses.

STILL GAS (REFINERY GAS)

Any form of mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is reported to DOE for petrochemical feedstock use and/or refinery fuel use, but they should not be reported on this survey form if used in the gaseous state.

RESIDENTIAL AND COMMERCIAL USES—Include liquefied petroleum gases sold for use in private households and commercial establishments such as motels, restaurants, retail stores, laundries, etc., primarily for use in space heating, water heating and cooking. *LP gases used for space heating and cooking in farm houses should be reported under FARM USES.*

INTERNAL-COMBUSTION ENGINE FUEL—Include liquefied gases for use in highway vehicles, forklifts, oil-field drilling and production equipment, etc. *LP gases used for tractors and irrigation engines and other agricultural vehicles should be reported under FARM USES.*

INDUSTRIAL USES—Include liquefied petroleum gases sold to manufacturing plants for such uses as standby fuel, space heating, flame cutting, metallurgical furnaces etc. Include sales to petroleum refineries for fuel use. For internal use, include NGLs and LRGs consumed by your company as fuel. *Sales or internal use of NGLs and LRGs for gasoline blending should not be reported in this category. Such sales or internal use should be reported in Section B2.*

GAS DISTRIBUTION COMPANIES—Include sales of ethane and liquefied petroleum gases sold to gas utility companies for use as a standby fuel or direct distribution in gas mains.

RAW MATERIALS AND SOLVENTS FOR CHEMICAL PLANTS—Include natural gas liquids or liquified refinery gases sold or used internally as raw materials and solvents in the manufacture of chemicals. Also include volumes used in the production of synthetic rubber. *Sales to chemical plants for use as plant fuel should be reported in the "industrial use" category.*

FARM USES—Include liquefied petroleum gases sold for use in tractors, irrigation engines, *space heating of buildings (including farm houses)*, cooking, crop drying, tobacco curing, flame cultivation, poultry breeding, and other agricultural applications.

ALL OTHER USES—Include natural gas liquids, and liquefied refinery gas sold or used for any purpose not covered in the above categories, including secondary recovery use. Include NGLs and LRGs for use as SNG feedstock. Sales to SNG plants for use as plant fuel should be reported in the "industrial use" category.

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2300— 9/89—4C(9C)
2300—10/90—3C(5A)C
2300—11/91—3C(5A)C

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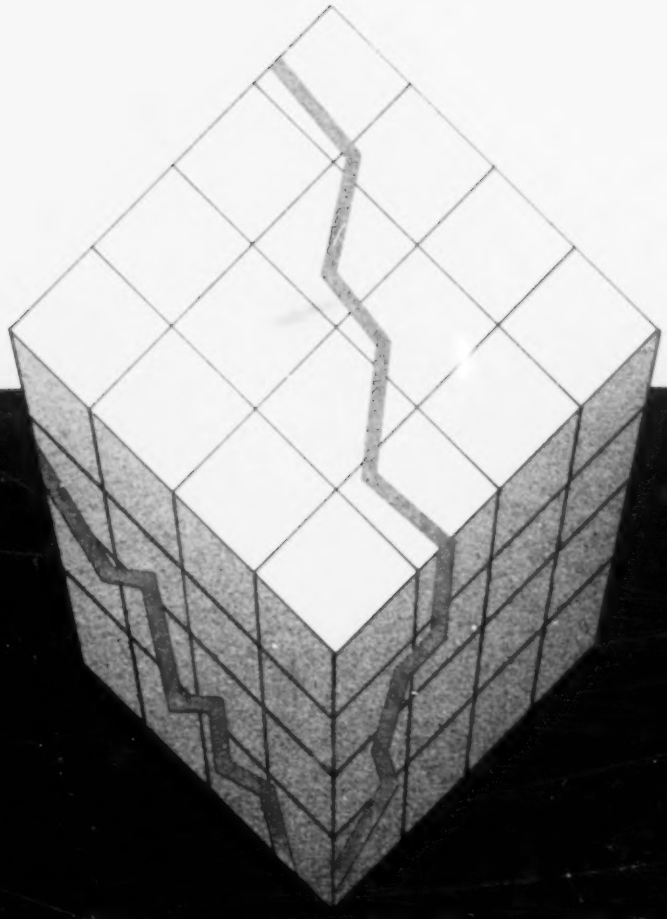

Sales of Natural Gas Liquids and Liquefied Refinery Gases

American Petroleum Institute

NPGA PROPANE GAS

Gas Processors Association

1991 Sales of Natural Gas Liquids and Liquefied Refinery Gases

Finance, Accounting and
Statistics Department
September 1992

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Preface

The ***1991 Sales of Natural Gas Liquids and Liquefied Refinery Gases*** presents results from the eighth annual survey jointly sponsored by the American Petroleum Institute (API), the Gas Processors Association (GPA), and the National PROPANE GAS Association (NPGA).

Sales of natural gas liquids and liquefied refinery gases totalled 35.8 billion gallons in 1991. An increase of 7.5 percent or 2.5 billion gallons from the 1990 volumetric level. By product, ethane, propane, butane and pentanes plus registered increases of 11.6, 7.0, 4.8, and 6.0 percents respectively.

According to survey data, chemical usage rose 15.5 percent, industrial usage increased 9.6 percent, residential and commercial usage was up 7.0 percent, internal-combustion fuel up 2.1 percent, and other uses expanded 52.4 percent. The other two sectors gas utility, and farm declined 16.1 and 0.2 percents respectively.

Butanes and pentanes plus, used in motor gasoline blending showed an overall decline of 9.7 percent.

The following table illustrates the percentage distribution of total sales by sector for both 1991 and 1990.

Sector	1991 %	1990 %
Residential & Commercial	14.9	15.0
Internal-Combustion Fuel	1.5	1.6
Chemical	49.1	45.7
Industrial	4.7	4.6
Gas Utility	0.6	0.8
Farm	3.2	3.4
Other	4.2	3.0
Gasoline Blending	21.8	25.9
Total	100.0	100.0

Washington, D.C.
September 1992

The ten states which had the largest volumes of sales are ranked below. Their sales came to 28.9 billion gallons or 80.7 percent of the total national volume.

Rank	State	Volume (M/gals)	% of Total
1.	Texas	17,453,298	48.8
2.	Louisiana	3,769,081	10.5
3.	Kansas	2,212,741	6.2
4.	California	1,184,094	3.3
5.	Illinois	1,112,818	3.1
6.	Michigan	869,156	2.4
7.	Mississippi	625,122	1.7
8.	Indiana	602,455	1.7
9.	New Mexico	579,890	1.6
10.	Ohio	507,062	1.4
	Total	28,915,717	80.7

TABLE 1. Sales of Natural Gas Liquids and Liquefied Refinery Gases in the United States, 1991 and 1990 (Thousands of Gallons)

Category	1991	1990	VOLUME CHANGE	% CHANGE
Product Type:				
Ethane 1/.....	8,729,322	7,823,550	905,772	11.6
Propane 2/.....	15,046,920	14,059,584	987,336	7.0
Butane 3/.....	6,766,536	6,456,240	310,296	4.8
Pentanes Plus 4/.....	5,253,024	4,955,622	297,402	6.0
United States Total	35,795,802	33,294,996	2,500,806	7.5
Principal Uses:				
Residential & Commercial	5,325,819	4,975,329	350,490	7.0
Internal-Combustion Fuel	543,213	532,099	11,114	2.1
Chemical/Industrial:				
Chemical 5/6/.....	17,563,215	15,206,326	2,356,889	15.5
Industrial 7/.....	1,678,848	1,531,763	147,085	9.6
Gas Utility	235,633	280,906	-45,273	-16.1
Farm	1,134,114	1,135,974	-1,860	-0.2
Other 8/.....	1,522,788	999,356	523,432	52.4
Gasoline Blending	7,792,172	8,633,243	-841,071	-9.7
United States Total	35,795,802	33,294,996	2,500,806	7.5

1/ Includes ethylene.
2/ Includes propylene.
3/ Includes isobutane and butylene.
4/ Includes isopentane, natural gasoline and plant condensate. Excludes field condensate.
5/ Includes use in synthetic rubber manufacture.
6/ The reported data strongly suggest that this category includes not only ethane, propane, butane and pentanes plus consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
7/ Includes refinery fuel use.
8/ Includes use as synthetic natural gas feedstock and use in secondary recovery projects.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Table 2. Sales of Natural Gas Liquids and Liquefied Refinery Gases by Product Type, PAD District and State, 1991 and 1990 (Thousands of Gallons)

District & State	Ethane		Propane		Butane	
	1991	1990	1991	1990	1991	1990
PAD Dist. I						
New England						
Connecticut	-	-	61,854	66,509	W	W
Maine	-	-	61,931	58,413	-	-
Massachusetts	-	-	80,581	110,536	-	W
New Hampshire	-	-	69,395	89,117	-	-
Rhode Island	-	-	19,560	21,042	-	-
Vermont	-	-	68,632	58,854	-	-
Central Atlantic						
Delaware	-	-	40,699	41,966	W	W
Maryland/D.C.	-	-	84,823	82,559	W	W
New Jersey	-	-	231,479	168,389	54,769	46,731
New York	-	-	301,623	235,259	W	W
Pennsylvania	-	-	318,480	256,626	101,601	118,945
Lower Atlantic						
Florida	-	-	334,242	325,408	W	W
Georgia	-	-	282,059	252,082	W	W
North Carolina	-	-	432,797	373,344	W	W
South Carolina	-	-	151,470	122,989	-	-
Virginia	-	-	195,020	171,717	W	W
West Virginia	-	-	76,479	67,802	-	-
Total	-	-	2,811,124	2,502,612	178,160	171,186
PAD Dist. II						
Illinois	273,308	203,996	318,177	291,955	430,596	370,818
Indiana	-	W	398,160	398,236	132,910	165,153
Iowa	W	W	302,051	265,751	W	W
Kansas	102,957	270,540	303,417	275,720	764,910	406,423
Kentucky	W	W	253,939	242,063	W	50,450
Michigan	-	-	614,813	584,958	192,792	86,043
Minnesota	-	-	276,440	250,357	15,775	W
Missouri	-	-	361,803	287,517	W	W
Nebraska	-	-	133,034	122,308	-	W
North Dakota	-	W	85,069	59,722	W	15,677
Ohio	-	-	466,520	460,008	36,037	66,291
Oklahoma	4,542	328	192,629	144,826	105,592	68,663
South Dakota	-	-	75,352	155,022	-	-
Tennessee	-	-	134,555	121,609	W	W
Wisconsin	-	-	355,538	279,422	W	W
Total	390,945	486,450	4,271,497	3,939,474	1,789,089	1,246,463
PAD Dist. III						
Alabama	-	-	159,868	174,938	5,533	5,687
Arkansas	-	W	138,802	145,666	W	6,709
Louisiana	966,706	853,545	975,671	937,169	1,294,747	1,156,790
Mississippi	-	-	253,793	289,329	20,648	15,865
New Mexico	222,775	131,473	206,005	205,150	58,850	47,583
Texas	7,136,960	6,335,500	4,968,800	4,597,056	2,563,467	2,964,248
Total	8,326,441	7,321,044	6,702,939	6,349,308	3,943,384	4,196,882
PAD Dist. IV						
Colorado	W	2,917	136,587	116,724	84,134	14,127
Idaho	-	-	34,176	25,609	-	-
Montana	-	-	44,245	73,090	W	112,024
Utah	-	-	31,155	38,517	57,670	67,738
Wyoming	-	W	50,795	49,762	12,481	32,967
Total	663	3,242	296,958	303,702	218,473	226,856
PAD Dist. V						
Alaska	-	-	16,870	16,113	-	-
Arizona	-	-	69,738	63,329	7,545	8,491
California	W	W	652,381	668,674	434,062	457,350
Hawaii	-	-	W	W	-	-
Nevada	-	-	48,575	60,092	-	-
Oregon	-	-	65,457	58,139	-	-
Washington	-	-	102,414	90,659	195,823	149,012
Total	11,273	12,814	964,402	964,488	637,430	614,853
U.S. Total	8,729,322	7,823,550	15,046,920	14,059,584	6,766,536	6,456,240

W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Pentanes Plus 1991	Pentanes Plus 1990	Total 1991	Total 1990	District & State
				PAD Dist. I
				New England
W	W	63,024	66,913	...Connecticut
-	W	61,931	58,427	.....Maine
W	-	80,611	110,542	.Massachusetts
-	-	69,395	89,117	.New Hampshire
-	-	19,560	21,042	..Rhode Island
-	-	68,632	58,854	.....Vermont
				Central Atlantic
-	-	52,834	44,120	.....Delaware
W	W	85,136	82,725	.Maryland/D.C.
W	W	288,529	217,198	....New Jersey
W	W	305,090	236,454	.....New York
W	W	423,497	378,555	..Pennsylvania
				Lower Atlantic
W	W	336,628	326,063	.....Florida
W	W	286,525	254,481	.....Georgia
W	W	433,977	374,428	North Carolina
W	W	151,928	123,108	South Carolina
W	W	195,440	172,043	.....Virginia
W	W	76,900	68,107	.West Virginia
10,353	8,379	2,999,637	2,682,177	.....Total
				PAD Dist. II
90,737	36,223	1,112,818	902,992	.....Illinois
W	72,274	602,455	639,331	.....Indiana
W	W	312,984	270,497	.....Iowa
1,041,457	822,370	2,212,741	1,775,053	.....Kansas
W	W	368,251	308,538	.....Kentucky
61,551	39,560	869,156	710,561	.....Michigan
W	W	292,847	264,011	.....Minnesota
W	W	364,875	289,131	.....Missouri
W	W	133,361	122,505	.....Nebraska
W	W	96,252	76,950	..North Dakota
W	W	507,062	528,702	.....Ohio
60,241	56,108	363,004	269,925	.....Oklahoma
-	-	75,352	155,022	..South Dakota
W	W	136,168	122,767	.....Tennessee
W	W	356,314	280,021	.....Wisconsin
1,352,109	1,043,619	7,803,640	6,716,006	.....Total
				PAD Dist. III
W	W	167,232	182,252	.....Alabama
W	W	140,978	153,597	.....Arkansas
531,957	588,570	3,769,081	3,536,074	.....Louisiana
W	W	625,122	627,218	...Mississippi
92,260	52,051	579,890	436,257	....New Mexico
2,784,071	2,708,987	17,453,298	16,605,791	.....Texas
3,762,837	3,673,955	22,735,601	21,541,189	.....Total
				PAD Dist. IV
12,664	22,342	234,048	156,110	.....Colorado
-	-	34,176	25,609	.....Idaho
-	W	108,433	185,549	.....Montana
19,757	34,679	108,582	140,934	.....Utah
5,431	28,296	68,707	111,350	.....Wyoming
37,852	85,752	553,946	619,552	.....Total
				PAD Dist. V
W	W	17,002	16,216	.....Alaska
W	W	78,028	71,858	.....Arizona
86,378	143,650	1,184,094	1,282,488	....California
-	-	8,967	7,482	.....Hawaii
W	W	50,084	60,161	.....Nevada
-	-	65,457	58,139	.....Oregon
W	W	299,346	239,728	....Washington
89,873	143,917	1,702,978	1,736,072	.....Total
5,253,024	4,955,622	35,795,802	33,294,996	.....U.S. Total

Table 3. Sales of Natural Gas Liquids and Liquefied Refinery Gases, by End Use, PAD District and State, 1991 and 1990 (Thousands of Gallons)

District & State	Residential & Commercial 1991	Residential & Commercial 1990	Internal Combustion Fuel 1991	Internal Combustion Fuel 1990	Chemical 1/ 1991	Chemical 1/ 1990	Industrial 2/ 1991	Industrial 2/ 1990
PAD Dist. I								
New England								
Connecticut	46,955	42,335	3,941	3,216	W	12,837	6,939	5,497
Maine	46,389	42,649	1,668	1,528	W	W	11,336	11,708
Massachusetts	60,726	67,115	6,785	5,277	W	-	7,233	8,820
New Hampshire	60,713	71,612	907	1,318	-	-	5,488	9,529
Rhode Island	13,814	13,679	1,437	1,708	-	-	3,772	5,219
Vermont	58,691	54,819	1,072	952	-	-	6,493	2,108
Central Atlantic								
Delaware	31,168	28,313	619	511	W	W	3,162	5,173
Maryland/D.C.	60,092	53,830	4,213	4,648	W	W	11,569	12,926
New Jersey	54,732	44,427	6,850	6,652	197,696	109,474	21,201	20,713
New York	249,558	201,571	15,561	13,398	483	542	22,200	12,292
Pennsylvania	145,289	125,135	18,491	13,986	W	W	66,970	51,752
Lower Atlantic								
Florida	255,049	246,525	17,622	18,969	-	-	24,624	21,928
Georgia	180,396	167,985	11,046	9,364	W	W	30,122	25,189
North Carolina	236,667	211,346	18,291	14,259	W	W	40,778	44,756
South Carolina	97,322	83,104	9,396	7,727	W	W	18,576	15,456
Virginia	114,643	104,950	9,950	5,654	W	W	28,359	29,042
West Virginia	19,460	20,571	1,699	1,682	44,115	W	8,011	4,423
Total	1,731,664	1,579,966	129,548	110,849	307,047	221,235	316,833	286,531
PAD Dist. II								
Illinois	187,593	158,561	30,716	29,221	196,999	96,921	39,921	50,352
Indiana	172,440	172,653	15,669	13,608	W	108,566	14,505	12,245
Iowa	165,960	135,511	4,837	3,762	W	W	16,148	14,440
Kansas	64,475	58,419	10,694	12,656	238,395	307,009	71,622	54,687
Kentucky	106,330	90,201	5,171	5,779	W	W	172,695	142,163
Michigan	358,153	323,039	25,795	25,247	47,657	45,433	65,070	62,506
Minnesota	157,947	144,908	5,091	5,054	W	W	29,212	29,055
Missouri	271,211	207,201	12,834	10,449	W	1,191	47,369	34,365
Nebraska	60,631	48,323	6,358	5,448	W	W	7,220	11,194
North Dakota	48,213	32,250	1,488	1,242	W	W	780	3,576
Ohio	219,927	207,790	28,741	31,883	W	W	46,386	44,662
Oklahoma	67,851	62,940	10,721	8,626	26,140	1,068	97,706	57,852
South Dakota	52,443	85,531	1,344	2,030	-	-	1,482	1,120
Tennessee	95,646	84,815	13,311	11,229	W	W	17,032	21,602
Wisconsin	258,948	206,910	13,752	10,531	W	W	30,238	24,398
Total	2,287,768	2,019,052	186,522	176,765	801,583	694,790	657,386	564,217
PAD Dist. III								
Alabama	114,220	132,824	9,242	8,594	W	W	12,748	10,814
Arkansas	82,693	91,446	7,735	7,404	W	W	5,612	5,297
Louisiana	40,753	38,268	7,127	6,613	2,060,695	1,769,600	17,606	46,567
Mississippi	91,999	106,640	10,788	11,721	W	136,530	13,038	20,058
New Mexico	66,679	84,260	7,910	10,486	415,733	246,056	7,893	7,026
Texas	199,616	303,042	34,018	42,736	13,757,116	12,004,113	114,424	123,197
Total	595,960	756,480	76,820	87,554	16,355,713	14,157,771	171,321	212,959
PAD Dist. IV								
Colorado	93,855	83,834	8,158	6,658	3,124	W	91,685	26,703
Idaho	18,408	15,737	3,915	4,271	-	-	2,549	2,177
Montana	34,752	40,175	4,711	5,942	-	-	W	19,223
Utah	20,501	20,970	4,333	4,518	-	W	6,097	3,525
Wyoming	29,406	24,060	4,838	2,394	W	W	18,777	16,468
Total	196,922	184,776	25,955	23,783	3,788	28,972	122,979	68,096
PAD Dist. V								
Alaska	15,966	14,820	431	502	-	-	W	W
Arizona	43,090	38,143	5,573	4,906	W	W	20,670	14,655
California	343,587	284,187	75,173	82,337	91,721	92,561	332,614	334,300
Hawaii	W	W	W	W	-	-	W	-
Nevada	36,236	40,379	2,042	2,005	W	W	5,111	4,383
Oregon	24,117	18,767	15,575	16,295	-	-	16,698	15,454
Washington	44,034	32,461	24,212	25,960	W	W	34,088	30,809
Total	513,505	435,055	124,368	133,148	95,084	103,558	410,329	399,960
U.S. Total	5,325,819	4,975,329	543,213	532,099	17,563,215	15,206,326	1,678,848	1,531,763

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and pentanes plus consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use as synthetic natural gas feedstock, and use in secondary recovery of petroleum.

W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1991	Gas Utility 1990	Farm 1991	Farm 1990	Other 3/ 1991	Other 3/ 1990	Total 1991	Total 1990	District & State
								PAD Dist. I
								New England
-	-	2,223	2,448	W	W	63,024	66,913	...Connecticut
1,050	1,199	249	243	255	100	61,931	58,413	.....Maine
4,600	27,325	906	833	W	1,172	80,611	110,542	.Massachusetts
W	1,351	61	241	1,887	5,066	69,395	89,117	.New Hampshire
-	W	505	43	W	W	19,560	21,042	..Rhode Island
W	-	747	339	W	W	68,632	58,854	.....Vermont
								Central Atlantic
-	W	5,617	6,142	W	3,717	52,834	44,101	.....Delaware
W	-	7,569	8,942	740	2,330	85,136	82,725	.Maryland/D.C.
586	W	1,196	583	3,656	1,881	285,917	184,008	....New Jersey
3,578	W	7,929	5,167	4,711	2,191	304,020	235,610	.....New York
W	W	22,019	18,584	7,020	2,343	321,686	268,323	..Pennsylvania
								Lower Atlantic
W	18,399	15,047	13,843	3,520	6,399	335,133	326,063	.....Florida
W	W	56,044	47,597	7,372	3,074	286,525	254,481	.....Georgia
1,334	1,269	129,690	93,456	6,138	8,545	433,977	374,428	North Carolina
W	W	23,610	15,445	1,228	436	151,928	123,108	South Carolina
W	W	35,831	28,128	5,631	3,339	195,440	172,043	.....Virginia
-	-	3,126	2,798	W	W	76,900	68,107	.West Virginia
36,854	52,564	312,369	244,832	58,334	41,901	2,892,649	2,537,878	.....Total
								PAD Dist. II
129,064	W	65,606	71,783	6,526	6,364	656,425	538,027	.....Illinois
W	W	64,315	78,271	7,449	5,955	403,652	403,669	.....Indiana
-	W	110,610	106,505	4,370	3,757	312,984	270,497	.....Iowa
W	W	30,219	32,016	744,164	402,434	1,186,735	892,310	.....Kansas
W	W	13,651	12,538	1,980	W	316,329	264,096	.....Kentucky
8,952	6,418	28,105	36,803	293,616	164,805	827,348	664,251	.....Michigan
W	W	82,175	71,041	3,343	531	278,479	251,009	.....Minnesota
707	W	24,115	24,629	7,661	2,205	364,875	289,123	.....Missouri
-	-	58,734	57,091	91	48	133,361	122,505	.....Nebraska
W	W	8,497	16,997	6,678	5,473	85,539	60,101	..North Dakota
W	W	42,741	58,823	7,219	7,167	472,404	465,325	.....Ohio
-	W	16,111	16,109	8,325	2,224	226,854	148,829	.....Oklahoma
W	W	19,930	65,521	137	814	75,352	155,022	..South Dakota
W	W	5,503	3,354	3,516	892	136,168	122,767	.....Tennessee
W	W	49,945	33,981	3,219	4,088	356,314	280,021	.....Wisconsin
181,009	180,082	620,257	685,462	1,098,294	607,184	5,832,819	4,927,552	.....Total
								PAD Dist. III
W	-	21,813	21,911	1,538	823	161,487	175,742	.....Alabama
-	W	38,034	39,084	4,700	2,606	140,978	147,059	.....Arkansas
-	-	12,977	9,762	33,104	96,064	2,172,262	1,966,874	.....Louisiana
W	W	17,173	14,377	5,469	10,506	256,933	299,987	...Mississippi
W	W	2,620	4,355	48,369	4,751	554,915	390,971	....New Mexico
-	W	36,773	41,952	215,142	203,876	14,357,089	12,718,967	.....Texas
6,138	34,769	129,390	131,441	308,322	318,626	17,643,664	15,699,600	.....Total
								PAD Dist. IV
-	-	8,658	5,511	13,089	1,226	218,569	130,356	.....Colorado
-	-	2,029	2,347	W	1,077	34,176	25,609	.....Idaho
-	-	317	3,789	W	3,961	44,245	73,090	.....Montana
-	-	1,145	1,068	W	W	32,789	45,425	.....Utah
-	-	1,546	1,830	1,375	W	56,606	53,654	.....Wyoming
-	-	13,695	14,545	23,046	7,962	386,385	328,134	.....Total
								PAD Dist. V
W	-	W	W	-	W	16,870	16,113	.....Alaska
-	-	3,241	4,784	W	841	73,904	63,367	.....Arizona
11,284	13,491	39,309	40,810	21,938	18,398	915,626	866,084	....California
W	-	W	W	W	W	8,967	7,482	.....Hawaii
-	-	1,014	1,511	W	W	50,084	60,161	.....Nevada
-	-	6,774	6,748	2,293	875	65,457	58,139	.....Oregon
-	-	7,968	5,766	5,794	2,190	117,205	97,243	....Washington
11,632	13,491	58,403	59,694	34,792	23,683	1,248,113	1,168,589	.....Total
235,633	280,906	1,134,114	1,135,974	1,522,788	999,356	28,003,630	24,661,753	.....U.S. Total

Table 4. Sales of Propane, by Use, in the United States, by PAD District and State, 1991 and 1990 (Thousands of Gallons)

District & State	Residential & Commercial 1991	Residential & Commercial 1990	Internal Combustion Fuel 1991	Internal Combustion Fuel 1990	Chemical 1/ 1991	Chemical 1/ 1990	Industrial 2/ 1991	Industrial 2/ 1990
PAD Dist. I								
New England								
Connecticut...	46,955	42,335	3,941	3,216	W	W	6,939	5,497
Maine.....	46,389	42,649	1,668	1,528	W	W	11,336	11,708
Massachusetts.	60,726	67,115	6,785	5,277	-	-	7,233	8,820
New Hampshire.	60,713	71,612	907	1,318	-	-	5,488	9,529
Rhode Island..	13,814	13,679	1,437	1,708	-	-	3,772	5,219
Vermont.....	58,691	54,819	1,072	952	-	-	6,493	2,108
Central Atlantic								
Delaware.....	31,168	28,313	619	511	W	W	3,162	5,173
Maryland/D.C..	60,092	53,830	4,213	4,648	-	-	11,569	12,926
New Jersey....	54,732	44,427	6,850	6,652	W	W	21,201	20,713
New York.....	249,558	201,571	15,561	13,398	W	W	22,200	12,292
Pennsylvania..	145,289	125,135	18,491	13,986	W	W	66,970	43,205
Lower Atlantic								
Florida.....	255,049	246,509	17,622	18,969	-	-	24,624	21,928
Georgia.....	180,396	167,985	11,046	9,364	-	-	30,122	25,189
North Carolina	236,667	211,346	18,291	14,259	W	W	40,778	44,756
South Carolina	97,322	83,104	9,396	7,727	-	-	18,576	15,456
Virginia.....	114,643	104,950	9,950	5,654	W	W	28,359	29,042
West Virginia.	19,460	20,571	1,699	1,682	W	W	8,011	4,423
Total.....	1,731,664	1,579,950	129,548	110,849	247,574	201,412	316,833	277,984
PAD Dist. II								
Illinois.....	187,593	158,561	30,716	29,221	W	W	30,792	26,927
Indiana.....	172,440	172,653	15,669	13,608	W	W	14,505	12,245
Iowa.....	165,960	135,511	4,837	3,762	W	W	16,148	14,440
Kansas.....	64,475	58,419	10,694	12,656	W	59,278	61,324	51,100
Kentucky.....	106,330	90,201	5,171	5,779	W	W	114,475	121,646
Michigan.....	358,153	323,039	25,795	25,247	W	W	65,070	62,506
Minnesota.....	157,106	144,908	5,091	5,054	-	-	29,212	29,055
Missouri.....	271,211	207,201	12,834	10,449	-	371	47,369	34,365
Nebraska.....	60,631	48,323	6,358	5,448	-	W	7,220	11,189
North Dakota..	48,213	32,250	1,488	1,242	W	-	780	3,576
Ohio.....	219,927	207,790	28,741	31,883	W	W	46,386	42,407
Oklahoma.....	67,851	62,940	10,721	8,626	W	242	87,213	56,081
South Dakota..	52,443	85,531	1,344	2,030	-	-	1,482	1,120
Tennessee.....	95,646	84,815	13,311	11,229	W	W	17,032	21,602
Wisconsin.....	258,948	206,910	13,752	10,531	-	-	30,238	24,398
Total.....	2,286,927	2,019,052	186,522	176,765	387,966	333,096	569,246	512,657
PAD Dist. III								
Alabama.....	114,217	132,816	9,222	8,574	-	-	12,748	10,814
Arkansas.....	82,693	91,446	7,735	7,404	W	-	5,612	5,297
Louisiana.....	40,753	38,268	6,546	6,154	898,690	851,078	16,500	29,817
Mississippi...	91,938	106,543	10,788	11,721	W	W	13,038	20,049
New Mexico....	66,679	84,260	7,910	10,486	119,199	W	7,893	7,026
Texas.....	199,574	302,987	34,018	42,686	4,577,061	4,075,835	70,911	81,478
Total.....	595,854	756,320	76,219	87,025	5,712,140	5,127,430	126,702	154,481
PAD Dist. IV								
Colorado.....	93,855	83,834	8,158	6,658	W	W	24,249	18,676
Idaho.....	18,408	15,737	3,915	4,271	-	-	2,549	2,177
Montana.....	34,752	40,175	4,711	5,942	-	-	W	19,223
Utah.....	20,501	20,970	4,333	4,518	-	W	4,463	3,431
Wyoming.....	29,406	24,060	4,838	2,394	W	W	13,594	16,143
Total.....	196,922	184,776	25,955	23,783	105	12,999	48,726	59,650
PAD Dist. V								
Alaska.....	15,966	14,820	431	502	-	-	W	W
Arizona.....	43,090	38,143	5,573	4,906	-	-	17,249	14,655
California....	343,455	283,666	74,625	82,092	W	W	96,327	153,287
Hawaii.....	W	W	W	W	-	-	W	-
Nevada.....	36,236	40,379	2,042	2,005	-	W	5,111	4,383
Oregon.....	24,117	18,767	15,575	16,295	-	-	16,698	15,454
Washington....	44,034	32,461	24,212	25,960	-	-	20,406	24,462
Total.....	513,373	434,534	123,820	132,903	87,564	103,041	156,939	212,600
U.S. Total.....	5,324,740	4,974,632	542,064	531,325	6,435,349	5,777,978	1,218,446	1,217,372

1/ The reported data strongly suggest that this category includes not only propane consumed as a chemical feedstock, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use.

W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1991	Gas Utility 1990	Farm 1991	Farm 1990	Other 1991	Other 1990	Total 1991	Total 1990	District & State
								PAD Dist. I
								New England
-	-	2,223	2,448	W	W	61,854	66,509	...Connecticut
1,050	1,199	249	243	255	100	61,931	58,413	.....Maine
4,600	27,325	906	833	W	1,166	80,581	110,536	.Massachusetts
W	1,351	61	241	1,887	5,066	69,395	89,117	.New Hampshire
-	W	505	43	W	W	19,560	21,042	..Rhode Island
W	-	747	339	W	W	68,632	58,854	.....Vermont
								Central Atlantic
-	W	5,617	6,142	-	W	40,699	41,966	.....Delaware
W	-	7,569	8,942	464	2,213	84,823	82,559	.Maryland/D.C.
586	W	1,196	583	1,889	799	231,479	168,389	....New Jersey
3,578	W	7,929	5,167	2,372	1,952	301,623	235,259	.....New York
W	W	22,019	18,584	6,804	2,177	318,480	256,626	..Pennsylvania
								Lower Atlantic
W	18,399	15,047	13,843	2,629	5,760	334,242	325,408	.....Florida
W	W	56,044	47,597	4,441	1,842	282,059	252,082	.....Georgia
1,334	1,269	129,690	93,456	5,837	7,982	432,797	373,344	North Carolina
W	W	23,610	15,445	1,228	356	151,470	122,989	South Carolina
W	W	35,831	28,128	5,599	3,326	195,020	171,717	.....Virginia
-	-	3,126	2,798	W	W	76,479	67,802	.West Virginia
36,854	52,349	312,369	244,832	36,282	35,236	2,811,124	2,502,612	.....Total
								PAD Dist. II
W	-	65,606	71,783	3,117	5,161	318,177	291,955	.....Illinois
W	W	64,315	78,271	4,328	5,288	398,160	398,236	.....Indiana
-	W	110,610	106,505	4,370	3,752	302,051	265,751	.....Iowa
W	W	30,219	32,016	61,987	56,864	303,417	275,720	.....Kansas
W	W	13,651	12,538	1,980	W	253,939	242,063	.....Kentucky
8,952	6,418	28,105	36,803	82,680	86,481	614,813	584,958	.....Michigan
W	W	82,175	71,041	2,777	248	276,440	250,357	.....Minnesota
707	W	24,115	24,629	5,567	1,419	361,803	287,517	.....Missouri
-	-	58,734	57,091	91	48	133,034	122,308	.....Nebraska
W	W	8,497	16,997	6,678	5,430	85,069	59,722	..North Dakota
W	W	42,741	58,823	5,840	6,508	466,520	460,008	.....Ohio
-	W	16,111	16,109	4,985	818	192,629	144,826	.....Oklahoma
W	W	19,930	65,521	137	814	75,352	155,022	..South Dakota
W	W	5,503	3,354	2,991	413	134,555	121,609	.....Tennessee
W	W	49,945	33,981	2,599	3,596	355,538	279,422	.....Wisconsin
30,452	35,555	620,257	685,462	190,127	176,887	4,271,497	3,939,474	.....Total
								PAD Dist. III
W	-	21,813	21,911	1,538	823	159,868	174,938	.....Alabama
-	-	38,034	39,074	4,700	2,445	138,802	145,666	.....Arkansas
-	-	12,977	9,762	205	2,090	975,671	937,169	.....Louisiana
W	W	17,143	14,377	3,627	589	253,793	289,329	...Mississippi
W	W	2,620	4,355	1,165	364	206,005	205,150	....New Mexico
-	W	36,773	41,952	50,463	52,067	4,968,800	4,597,056	.....Texas
966	34,243	129,360	131,431	61,698	58,378	6,702,939	6,349,308	.....Total
								PAD Dist. IV
-	-	8,658	5,511	1,598	1,213	136,587	116,724	.....Colorado
-	-	2,029	2,347	W	1,077	34,176	25,609	.....Idaho
-	-	317	3,789	W	3,961	44,245	73,090	.....Montana
-	-	1,145	1,068	W	W	31,155	38,517	.....Utah
-	-	1,546	1,830	1,375	W	50,795	49,762	.....Wyoming
-	-	13,695	14,545	11,555	7,949	296,958	303,702	.....Total
								PAD Dist. V
W	-	W	W	-	W	16,870	16,113	.....Alaska
-	-	3,241	4,784	W	841	69,738	63,329	.....Arizona
W	W	38,764	40,558	11,635	16,186	652,381	668,674	....California
W	-	W	W	W	W	8,967	7,482	.....Hawaii
-	-	1,014	1,511	W	W	48,575	60,092	.....Nevada
-	-	6,774	6,748	2,293	875	65,457	58,139	.....Oregon
-	-	7,968	5,766	5,794	2,010	102,414	90,659	....Washington
359	677	57,858	59,442	24,489	21,291	964,402	964,488	.....Total
68,631	122,824	1,133,539	1,135,712	324,151	299,741	15,046,920	14,059,584	.....U.S. Total

Table 5. Sales of Butane, by Use, in the United States, by PAD District and State, 1991 and 1990 (Thousands of Gallons)

District & State	Residential & Commercial 1991	Residential & Commercial 1990	Internal Combustion Fuel 1991	Internal Combustion Fuel 1990	Chemical 1/ 1991	Chemical 1/ 1990	Industrial 2/ 1991	Industrial 2/ 1990
PAD Dist. I								
New England								
Connecticut...	-	-	-	-	-	-	-	-
Maine.....	-	-	-	-	-	-	-	-
Massachusetts.	-	-	-	-	-	-	-	-
New Hampshire.	-	-	-	-	-	-	-	-
Rhode Island..	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-
Central Atlantic								
Delaware.....	-	-	-	-	-	-	-	-
Maryland/D.C..	-	-	-	-	-	-	-	-
New Jersey....	-	-	-	-	W	W	-	-
New York.....	-	-	-	-	-	W	-	-
Pennsylvania..	-	-	-	-	-	-	-	W
Lower Atlantic								
Florida.....	-	W	-	-	-	-	-	-
Georgia.....	-	-	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-
Virginia.....	-	-	-	-	-	-	-	-
West Virginia.	-	-	-	-	-	-	-	-
Total.....	-	16	-	-	50,390	12,256	-	8,547
PAD Dist. II								
Illinois.....	-	-	-	-	38,656	9,972	W	W
Indiana.....	-	-	-	-	-	-	-	-
Iowa.....	-	-	-	-	W	W	-	-
Kansas.....	-	-	-	-	W	W	W	W
Kentucky.....	-	-	-	-	-	-	W	W
Michigan.....	-	-	-	-	-	W	-	-
Minnesota.....	W	-	-	-	-	-	-	-
Missouri.....	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	W
North Dakota..	-	-	-	-	-	-	-	-
Ohio.....	-	-	-	-	-	-	-	W
Oklahoma.....	-	-	-	-	W	211	W	W
South Dakota..	-	-	-	-	-	-	-	-
Tennessee.....	-	-	-	-	-	-	-	-
Wisconsin.....	-	-	-	-	-	-	-	-
Total.....	841	-	-	-	142,020	41,187	78,485	44,088
PAD Dist. III								
Alabama.....	W	W	W	W	W	-	-	-
Arkansas.....	-	-	-	-	W	-	-	-
Louisiana.....	-	-	W	W	157,492	70,587	W	W
Mississippi...	W	97	-	-	-	-	-	W
New Mexico....	-	-	-	-	W	W	-	-
Texas.....	W	W	-	W	992,728	1,085,186	40,898	W
Total.....	106	160	601	529	1,189,209	1,180,778	42,004	54,700
PAD Dist. IV								
Colorado.....	-	-	-	-	-	W	W	W
Idaho.....	-	-	-	-	-	-	-	-
Montana.....	-	-	-	-	-	-	-	-
Utah.....	-	-	-	-	-	W	W	W
Wyoming.....	-	-	-	-	W	W	W	-
Total.....	-	-	-	-	115	12,600	74,253	8,121
PAD Dist. V								
Alaska.....	-	-	-	-	-	-	-	-
Arizona.....	-	-	-	-	-	-	W	-
California....	W	521	W	245	W	-	236,287	181,013
Hawaii.....	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-
Oregon.....	-	-	-	-	-	-	-	-
Washington....	-	-	-	-	-	-	W	W
Total.....	132	521	548	245	159	-	253,390	187,360
U.S. Total.....	1,079	697	1,149	774	1,381,893	1,246,821	448,132	302,816

1/ The reported data strongly suggest that this category includes not only butane consumed as a chemical feedstock, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.
3/ Includes use in secondary recovery of petroleum.

W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility 1991	Gas Utility 1990	Farm 1991	Farm 1990	Other 3/ 1991	Other 3/ 1990	Total 1991	Total 1990	District & State
								PAD Dist. I
								New England
-	-	-	-	W	W	1,164	393	...Connecticut
-	-	-	-	-	-	-	-	.....Maine
-	-	-	-	-	W	-	6	.Massachusetts
-	-	-	-	-	-	-	-	.New Hampshire
-	-	-	-	-	-	-	-	..Rhode Island
-	-	-	-	-	-	-	-	.....Vermont
								Central Atlantic
-	-	-	-	W	W	12,135	2,135	.....Delaware
-	-	-	-	W	W	276	117	.Maryland/D.C.
-	W	-	-	W	W	52,157	13,541	....New Jersey
-	-	-	-	W	W	2,339	251	.....New York
-	-	-	-	W	W	216	8,713	..Pennsylvania
								Lower Atlantic
-	-	-	-	W	-	47	16	.....Florida
-	-	-	-	W	W	2,931	1,232	.....Georgia
-	-	-	-	W	W	301	484	North Carolina
-	-	-	-	-	-	-	-	South Carolina
-	-	-	-	W	W	32	13	.....Virginia
-	-	-	-	-	-	-	-	.West Virginia
-	215	-	-	21,208	5,867	71,598	26,901	.....Total
								PAD Dist. II
-	-	-	-	W	W	51,194	34,594	.....Illinois
-	-	-	-	W	W	3,084	667	.....Indiana
-	-	-	-	-	W	5,838	1,890	.....Iowa
-	-	-	-	W	W	405,875	112,855	.....Kansas
-	-	-	-	-	-	48,575	13,104	.....Kentucky
-	-	-	-	W	W	154,646	41,771	.....Michigan
-	-	-	-	W	W	1,407	283	.....Minnesota
-	-	-	-	W	W	2,094	786	.....Missouri
-	-	-	-	-	-	-	5	.....Nebraska
-	-	-	-	-	-	-	-	..North Dakota
-	-	-	-	W	W	1,379	2,914	.....Ohio
-	-	-	-	W	W	20,629	2,154	.....Oklahoma
-	-	-	-	-	-	-	-	..South Dakota
-	-	-	-	W	W	525	479	.....Tennessee
-	-	-	-	W	W	620	492	.....Wisconsin
-	-	-	-	474,520	126,719	695,866	211,994	.....Total
								PAD Dist. III
-	-	-	-	-	-	31	28	.....Alabama
-	-	-	W	-	W	139	171	.....Arkansas
-	-	-	-	W	28,357	183,164	116,153	.....Louisiana
-	-	W	-	W	W	1,933	10,023	...Mississippi
W	-	-	-	W	W	48,939	29,392	....New Mexico
-	-	-	-	15,479	22,389	1,049,147	1,145,621	.....Texas
5,172	-	30	10	46,231	65,211	1,283,353	1,301,388	.....Total
								PAD Dist. IV
-	-	-	-	W	W	70,350	10,711	.....Colorado
-	-	-	-	-	-	-	-	.....Idaho
-	-	-	-	-	-	-	-	.....Montana
-	-	-	-	-	-	1,634	6,448	.....Utah
-	-	-	-	-	-	5,298	3,567	.....Wyoming
-	-	-	-	2,914	5	77,282	20,726	.....Total
								PAD Dist. V
-	-	-	-	-	-	-	-	.....Alaska
-	-	-	-	-	-	3,421	-	.....Arizona
-	-	W	W	W	W	243,376	184,109	....California
-	-	-	-	-	-	-	-	.....Hawaii
-	-	-	-	-	-	-	-	.....Nevada
-	-	-	-	-	-	-	-	.....Oregon
-	-	-	-	-	W	13,682	6,527	....Washington
-	-	545	252	5,705	2,258	260,479	190,636	.....Total
5,172	215	575	262	550,578	200,060	2,388,578	1,751,645	.....U.S. Total

Table 6. Sales of Ethane by Use, in the United States, by PAD District, 1991 and 1990 (Thousands of Gallons)

District	Residential & Commercial 1991	Residential & Commercial 1990	Internal Combustion Fuel 1991	Internal Combustion Fuel 1990	Chemical 1991	Chemical 1990	Industrial 1/ 1991	Industrial 1/ 1990
PAD Dist. I	-	-	-	-	-	-	-	-
PAD Dist. II	-	-	-	-	225,483	282,737	9,655	7,472
PAD Dist. III	-	-	-	-	8,249,869	7,145,276	2,615	3,778
PAD Dist. IV	-	-	-	-	371	2,913	-	325
PAD Dist. V	-	-	-	-	-	-	-	-
U.S. Total.....	-	-	-	-	8,475,723	7,430,926	12,270	11,575

Table 7. Sales of Pentanes Plus by Use, in the United States, by PAD District, 1991 and 1990 (Thousands of Gallons)

District & State	Residential & Commercial 1991	Residential & Commercial 1990	Internal Combustion Fuel 1991	Internal Combustion Fuel 1990	Chemical 1991	Chemical 1990	Industrial 1/ 1991	Industrial 1/ 1990
PAD Dist. I	-	-	-	-	9,083	7,567	-	-
PAD Dist. II	-	-	-	-	46,114	37,770	-	-
PAD Dist. III	-	-	-	-	1,204,495	704,287	-	-
PAD Dist. IV	-	-	-	-	3,197	460	-	-
PAD Dist. V	-	-	-	-	7,361	517	-	-
U.S. Total.....	-	-	-	-	1,270,250	750,601	-	-

1/ The reported data strongly suggest that this category includes not only ethane, propane, butane and pentanes plus consumed as chemical feedstocks, but some refinery olefins and chemical plant fuel usage.
2/ Includes sales for refinery fuel use and synthetic rubber manufacture.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

Gas Utility		Farm		Other 2/		Total		
1991	1990	1991	1990	1991	1990	1991	1990	District
-	-	-	-	-	-	-	-	PAD Dist. I
150,557	144,527	-	-	5,250	51,714	390,945	486,450	PAD Dist. II
-	526	-	-	73,957	171,464	8,326,441	7,321,044	PAD Dist. III
-	-	-	-	292	4	663	3,242	PAD Dist. IV
11,273	12,814	-	-	-	-	11,273	12,814	PAD Dist. V
161,830	157,867	-	-	79,499	223,182	8,729,322	7,823,550	.....U.S. Total

Gas Utility		Farm		Other 2/		Total		
1991	1990	1991	1990	1991	1990	1991	1990	District & State
-	-	-	-	844	798	9,927	8,365	PAD Dist. I
-	-	-	-	428,397	251,864	474,511	289,634	PAD Dist. II
-	-	-	-	126,436	23,573	1,330,931	727,860	PAD Dist. III
-	-	-	-	8,285	4	11,482	464	PAD Dist. IV
-	-	-	-	4,598	134	11,959	651	PAD Dist. V
-	-	-	-	568,560	276,373	1,838,810	1,026,974	.....U.S. Total

Table 8. Sales of Natural Gas Liquids and Liquefied Refinery Gases for Gasoline Blending by Product Type, PAD District and State, 1991 and 1990 (Thousands of Gallons)

District & State	Butane		Pentanes Plus		Total	
	1991	1990	1991	1990	1991	1990
PAD Dist. I						
New England						
Connecticut...	-	-	-	-	-	-
Maine.....	-	-	-	W	-	14
Massachusetts.	-	-	-	-	-	-
New Hampshire.	-	-	-	-	-	-
Rhode Island..	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-
Central Atlantic						
Delaware.....	-	W	-	-	-	19
Maryland/D.C..	-	-	-	-	-	-
New Jersey....	W	W	-	-	2,612	33,190
New York.....	W	W	-	-	1,070	844
Pennsylvania..	101,385	110,232	W	-	101,811	110,232
Lower Atlantic						
Florida.....	W	-	-	-	1,495	-
Georgia.....	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-
Virginia.....	-	-	-	-	-	-
West Virginia.	-	-	-	-	-	-
Total.....	106,562	144,285	426	14	106,988	144,299
PAD Dist. II						
Illinois.....	379,402	336,224	W	W	456,393	364,965
Indiana.....	129,826	164,486	W	W	198,803	235,662
Iowa.....	-	-	-	-	-	-
Kansas.....	359,035	293,568	666,971	589,175	1,026,006	882,743
Kentucky.....	W	W	W	W	51,922	44,442
Michigan.....	38,146	44,272	W	W	41,808	46,310
Minnesota.....	W	W	-	-	14,368	13,002
Missouri.....	-	W	-	-	-	8
Nebraska.....	-	-	-	-	-	-
North Dakota..	W	15,677	-	W	10,713	16,849
Ohio.....	34,658	63,377	-	-	34,658	63,377
Oklahoma.....	84,963	66,509	51,187	54,587	136,150	121,096
South Dakota..	-	-	-	-	-	-
Tennessee.....	-	-	-	-	-	-
Wisconsin.....	-	-	-	-	-	-
Total.....	1,093,223	1,034,469	877,598	753,985	1,970,821	1,788,454
PAD Dist. III						
Alabama.....	W	5,659	W	W	5,745	6,510
Arkansas.....	-	W	-	-	-	6,538
Louisiana.....	1,111,583	1,040,637	485,236	528,563	1,596,819	1,569,200
Mississippi...	W	W	W	W	368,189	327,231
New Mexico....	9,911	18,191	15,064	27,095	24,975	45,286
Texas.....	1,514,320	1,818,627	1,581,889	2,068,197	3,096,209	3,886,824
Total.....	2,660,031	2,895,494	2,431,906	2,946,095	5,091,937	5,841,589
PAD Dist. IV						
Colorado.....	W	3,416	W	22,338	15,479	25,754
Idaho.....	-	-	-	-	-	-
Montana.....	W	112,024	-	W	64,188	112,459
Utah.....	56,036	61,290	19,757	34,219	75,793	95,509
Wyoming.....	7,183	29,400	4,918	28,296	12,101	57,696
Total.....	141,191	206,130	26,370	85,288	167,561	291,418
PAD Dist. V						
Alaska.....	-	-	W	W	132	103
Arizona.....	W	8,491	-	-	4,124	8,491
California....	190,686	273,241	77,782	143,163	268,468	416,404
Hawaii.....	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-
Oregon.....	-	-	-	-	-	-
Washington....	182,141	142,485	-	-	182,141	142,485
Total.....	376,951	424,217	77,914	143,266	454,865	567,483
U.S. Total.....	4,377,958	4,704,595	3,414,214	3,928,648	7,792,172	8,633,243

W Data withheld to avoid disclosure of individual company data.

Source: API, "Sales of Natural Gas Liquids and Liquefied Refinery Gases," Annual Survey.

PRODUCT DESCRIPTIONS AND DEFINITIONS

ETHANE—A normally gaseous paraffinic compound (C2H6). Include ethane sold in an ethane-propane mix. Note: Report ethane-ethylene mixtures for chemical use under Section A5. Subheading a. "Raw Materials and Solvents for Chemical Plants."

PROPANE—Include all products covered by the Gas Processors Association (GPA) specifications for commercial and HD-5 propane including propane sold in ethane-propane and butane-propane mixes. Also include propylene in this category.

BUTANE—Include all products covered by GPA specifications for commercial butane including butane sold in a butane-propane mix. Also include isobutane and butylene in this category.

PENTANES-PLUS—A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Include isopentane, natural gasoline and plant condensate. Exclude field condensate which is mixed with crude oil and reported as part of crude oil and field condensate production to DOE.

LIQUEFIED REFINERY GASES (LRG)

Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration they are retained in the liquid state. The reporting categories are ethane/ethylene, propane/propylene, normal butane/butylene. Excludes still gas used for chemical or rubber manufacture which is reported as a petrochemical feedstock and also excludes liquefied petroleum gases intended for blending into gasoline which are reported as gasoline blending components. Liquefied refinery gases are reported for use as petrochemical feedstock or other uses.

STILL GAS (REFINERY GAS)

Any form of mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is reported to DOE for petrochemical feedstock use and/or refinery fuel use, but they should not be reported on this survey form if used in the gaseous state.

RESIDENTIAL AND COMMERCIAL USES—Include liquefied petroleum gases sold for use in private households and commercial establishments such as motels, restaurants, retail stores, laundries, etc., primarily for use in space heating, water heating and cooking. *LP gases used for space heating and cooking in farm houses should be reported under FARM USES.*

INTERNAL-COMBUSTION ENGINE FUEL—Include liquefied gases for use in highway vehicles, forklifts, oil-field drilling and production equipment, etc. *LP gases used for tractors and irrigation engines and other agricultural vehicles should be reported under FARM USES.*

INDUSTRIAL USES—Include liquefied petroleum gases sold to manufacturing plants for such uses as standby fuel, space heating, flame cutting, metallurgical furnaces etc. Include sales to petroleum refineries for fuel use. For internal use, include NGLs and LRGs consumed by your company as fuel. *Sales or internal use of NGLs and LRGs for gasoline blending should not be reported in this category. Such sales or internal use should be reported in Section B2.*

GAS DISTRIBUTION COMPANIES—Include sales of ethane and liquefied petroleum gases sold to gas utility companies for use as a standby fuel or direct distribution in gas mains.

RAW MATERIALS AND SOLVENTS FOR CHEMICAL PLANTS—Include natural gas liquids or liquified refinery gases sold or used internally as raw materials and solvents in the manufacture of chemicals. Also include volumes used in the production of synthetic rubber. *Sales to chemical plants for use as plant fuel should be reported in the "industrial use" category.*

FARM USES—Include liquefied petroleum gases sold for use in tractors, irrigation engines, *space heating of buildings (including farm houses)*, cooking, crop drying, tobacco curing, flame cultivation, poultry breeding, and other agricultural applications.

ALL OTHER USES—Include natural gas liquids, and liquefied refinery gas sold or used for any purpose not covered in the above categories, including secondary recovery use. Include NGLs and LRGs for use as SNG feedstock. Sales to SNG plants for use as plant fuel should be reported in the "industrial use" category.

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